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alpha
Configuration Suite V3.09
User Manual

Audix Systems

File Reference
21003 alpha config V309.doc

Issue 2
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1 Revision History

Issue	Modifications	Date
1.0	Initial Draft	14/7/99
1.1	Initial Update	26/7/99
1.2	Update for Configuration Suite V1.4	03/4/00
2.0	Full revision for Config Suite Version 3.09	12/4/05

Alpha Configuration Suite V3.09 can be used to configure Alpha System controllers incorporating firmware V5 or later.

Alpha System Controller:

- AL1000 – standard *Alpha* System Controller.
- AL1100 – with 1 message card
- AL1200 – with 2 message card
- AL1300 – with 3 message card

Network *Alpha* System Controller, with Network:

- AL2000 – standard Network *Alpha* System Controller.
- AL2100 – with 1 message card
- AL2200 – with 2 message card
- AL2300 – with 3 message card

Alpha Firmware versions covered (the firmware version can be read from the Alpha menu screen);

		Configuration Suite			
Firmware	Description	Alconf1.4	Alconf2.0	Alconf3.03	**Alconf3.09**
V2.x	Original non-network Alpha	Y			
V3.x	Network Alpha (non-monitored)		Y		
V4.x	Network Alpha (non-monitored)			Y	
V5.x	**Network and Non-network Alpha, monitored (see Network appendix)**				**Y**
	Windows Operating System	**95/98**	**95/98**	**95/98**	**95/98/2000**

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DISCLAIMER

This manual contains information that is correct to the best of Audix Systems knowledge. It is intended to be a guide and should be used as such. It should not be considered as a sole source of technical instruction, replacing good technical judgement, since all possible situations cannot be anticipated. If there are any doubts as to exact installation, configuration and/or use, call Audix Systems at
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ACKNOWLEDGEMENTS

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2 Introduction

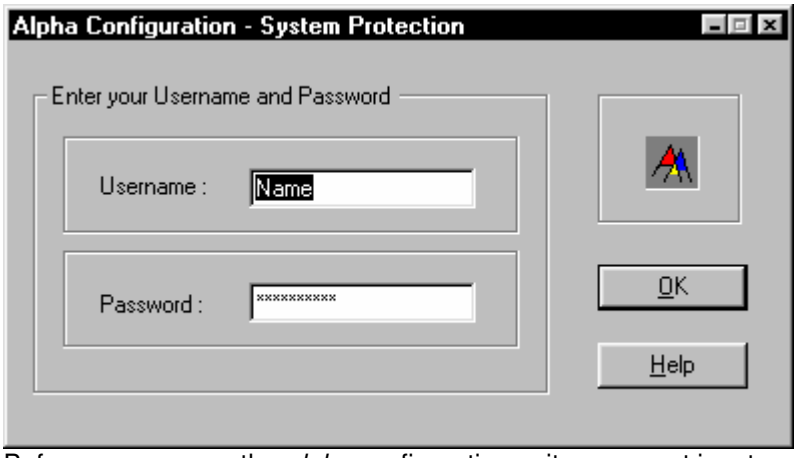
The *alpha* is configured by a simple ASCII text file called Ac-xxxxxxa01v01.cfg where xxxxxx is the project reference (a 6 digit number), a01 is the number of the Alpha (1 – 16) and v01 is the version number of the file (this number goes up after every edit) . In addition, a system definition file is created xxxxxx.def.

This file can be downloaded to the *alpha* and uploaded to the configuration PC for analysis and modifications.

When configuring the *alpha* using the Windows *alpha* configuration suite, the generation of the ASCII text file is done for you. The configuration suite also checks the configurations for errors. It is possible to edit the file using a simple text editor such as notepad, but caution should be taken as the configuration will not be checked for errors, and this could cause the *alpha* to not operate as desired.

2.1 System Protection

The software is Dongle protected and will not operate without a crypto dongle fitted in the printer port of the PC.



Before you can use the *alpha* configuration suite you must input your Username and Password then press OK..

The Configuration PC will now try to communicate with the *alpha*

If it fails to connect with the *alpha* you will get the following display.

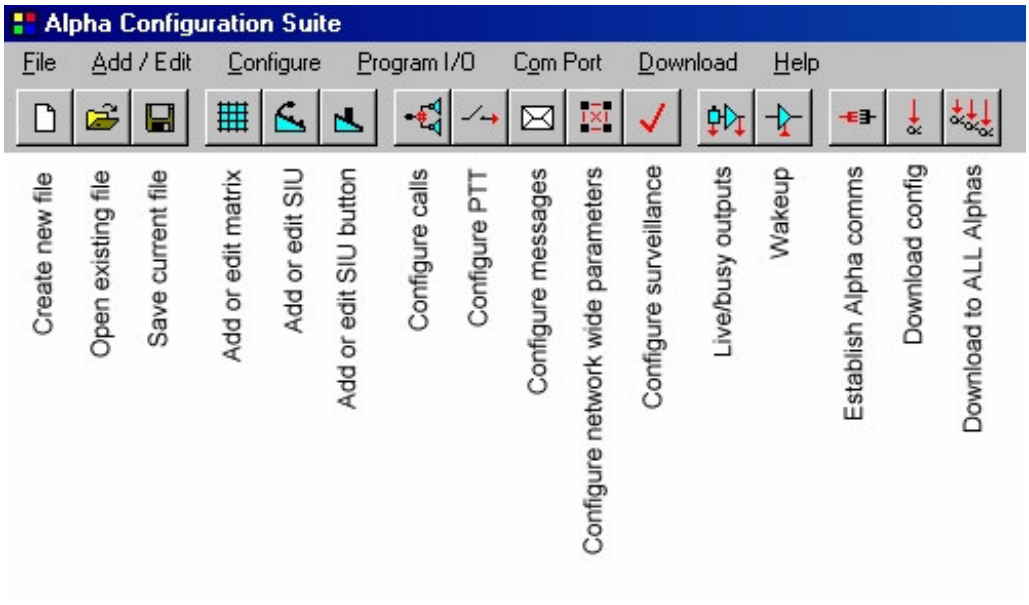
Comms Port Error
ERROR: Maximum Retry's Attempted - Communication Failed ...
The Communication's Port has been Disabled ....
Use Configure | Comms to Re-Establish Comm's Link.
OK

The Configuration Suite can be used Off-line, This enable configurations to be produced and edited off-site before downloading to the *alpha*.

3 Menus & Toolbar

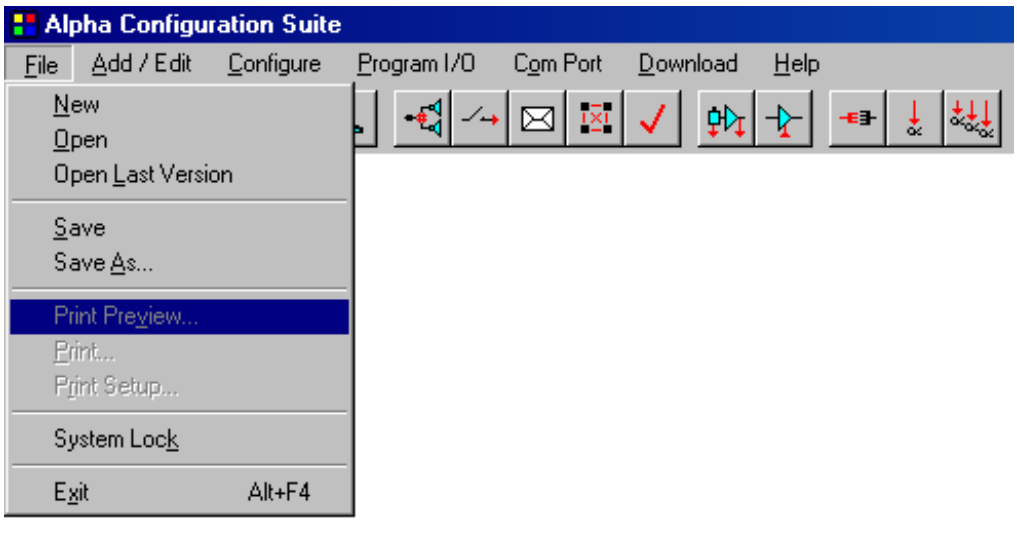
3.1 Main Screen

The following tool bar is visible when the Configuration package is run. The buttons provide short cuts to the most common functions. A Help text appears when the mouse is “hovered” over each button.



3.2 File Menu

Perform operations on files

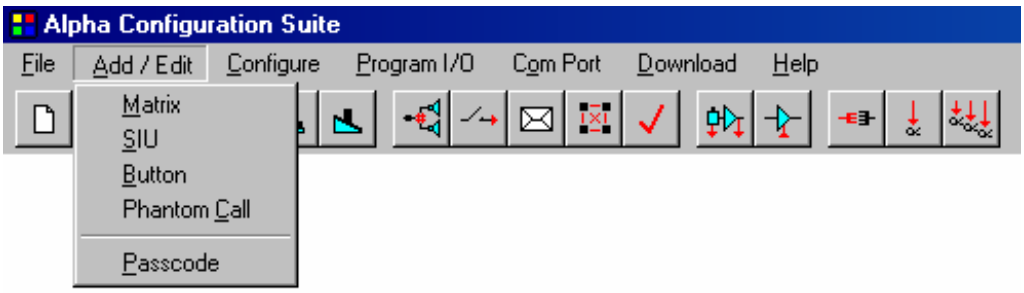


New	Selecting this will generate a new configuration
Open	Selecting this will open an existing configuration
Open last version	The configuration suite automatically saves a backup of each configuration. If necessary you can load this backup to reverse any changes to the open configuration.

Save	Save the current open configuration
Save As…	Saves the current configuration under a different name
System Lock	Enables the system lock, preventing unauthorized users from editing the open configuration. Simply re-enter your user password to continue editing.
Exit	Exit from the *alpha* configuration Suite

3.3 Add/Edit Menu

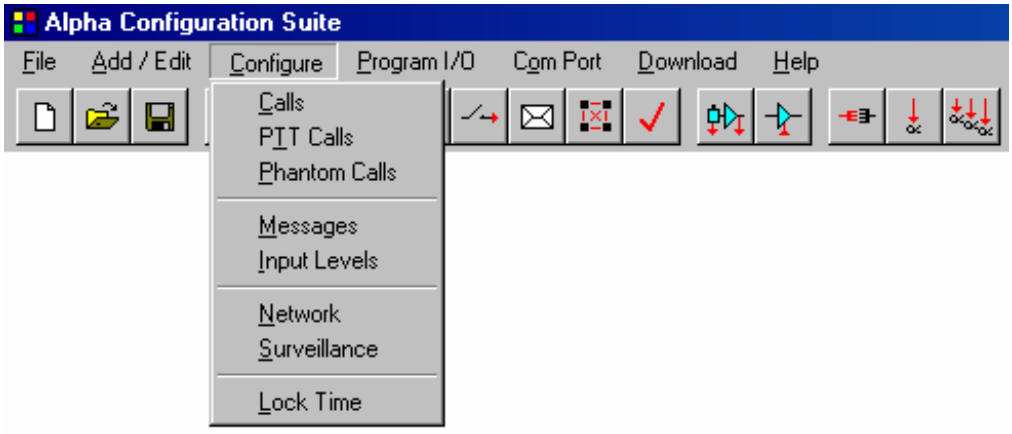
Setup the core matrix and button functions



Matrix	Add a matrix and configure Inputs and Outputs
S.I.U	Add or Edit A Serial Interface Unit
Button	Edit a Button on an SIU/Serial microphone
Phantom Call	Add or edit a Phantom call
Passcode	Configure Alpha Passwords

3.4 Configure Menu

Configure the matrix cause and effect

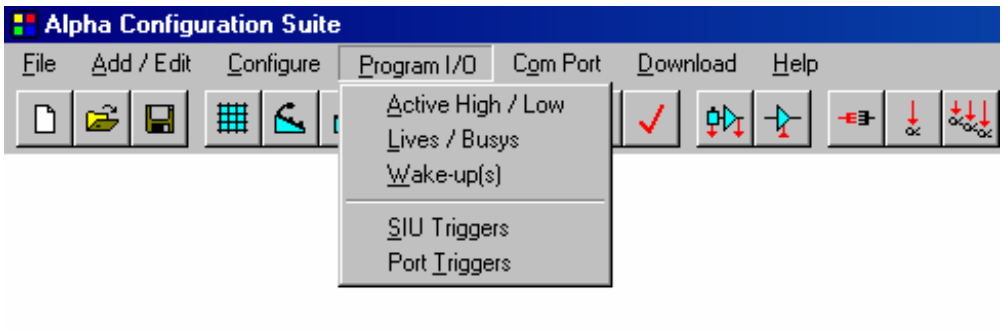


Calls	Configure functionality of SIU buttons
PTT Calls	Configure functionality of PTT buttons
Phantom Calls	Configure Phantom calls
Messages	Configure message cards
Input levels	Setup audio input levels
Network	Configure network parameters (tie lines etc)
Surveillance	Set up 20kHz Critical path testing signal sources.

Lock time	Set the time interval for the screen lock

3.5 Program I/O Menu

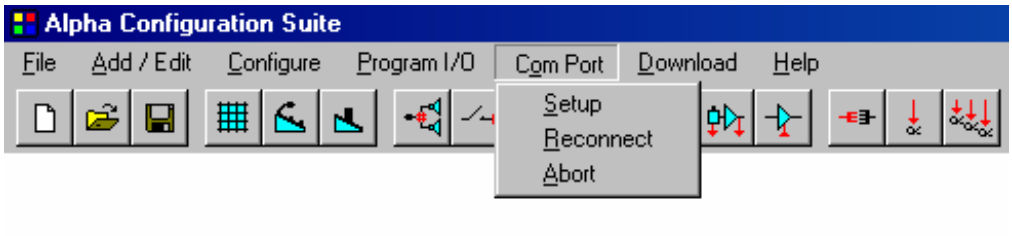
Configure the matrix parallel input and outputs



Active High/Low	Set the active state of the input/output lines
Lives/Busys	Configure the Live and Busy output lines
Wakeups	Allocate wakeup line
SIU triggers	Add/edit output lines triggered by SIU buttons
Port Triggers	Add/edit output lines triggered by PTT buttons

3.6 Com Port Menu

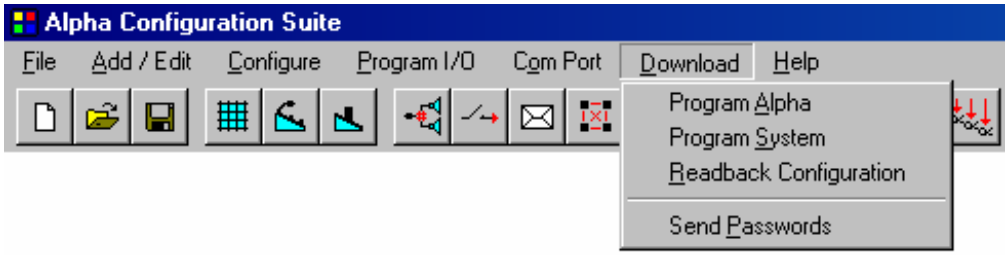
Setup the communications between PC and Alpha



Setup	Setup the serial communications PC>Alpha
Reconnect	Attempt to reconnect to an Alpha
Abort	Abort connection to Alpha

3.7 Download Menu

Programme the matrix



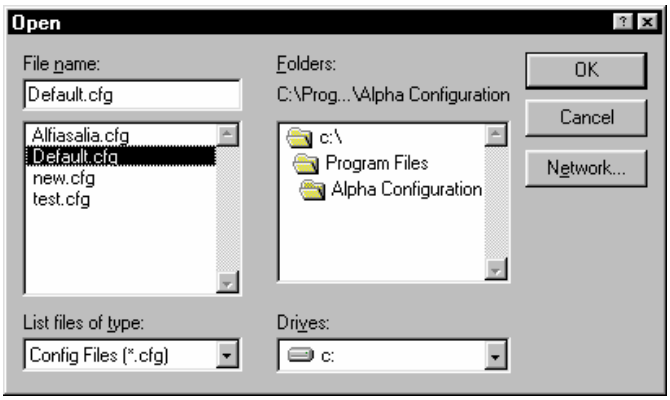
Program Alpha	Configure the Alpha with the current program
Program system	Configure Alphas on a network
Readback configuration	Read the configuration back from the connected Alpha
Send passwords	Send user passwords to Alpha

4 File screens

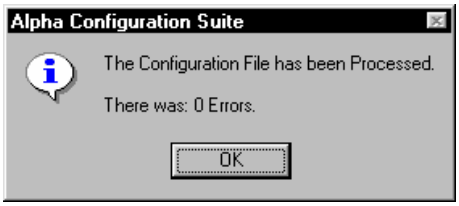
4.1 Open File

Function;
Open an existing configuration.

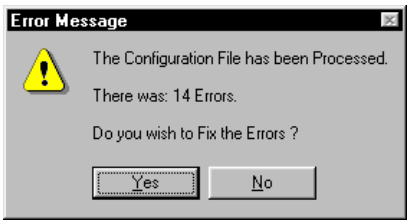
To open an existing configuration, select File-Open and select from the list of configurations the file required.



The *alpha* configuration suite automatically checks the configuration for errors when loading. If the configuration is Ok you will get the following message.

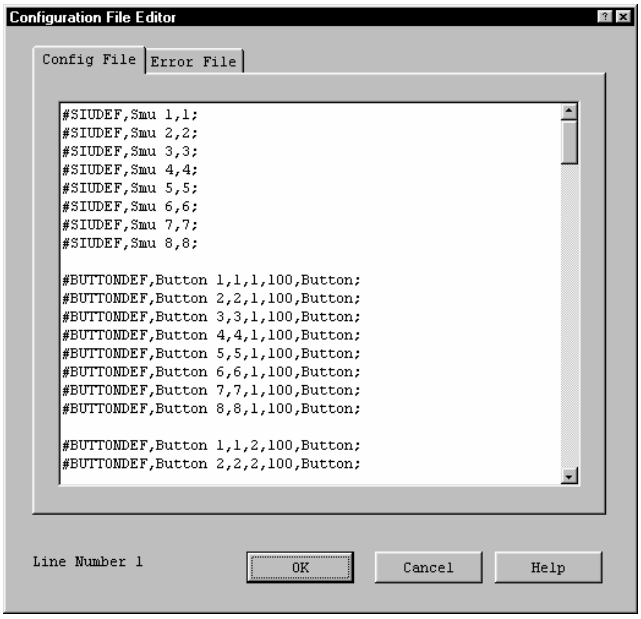


If the configuration has errors you will see the following box appear. Click on the OK button to check the errors in the configuration.

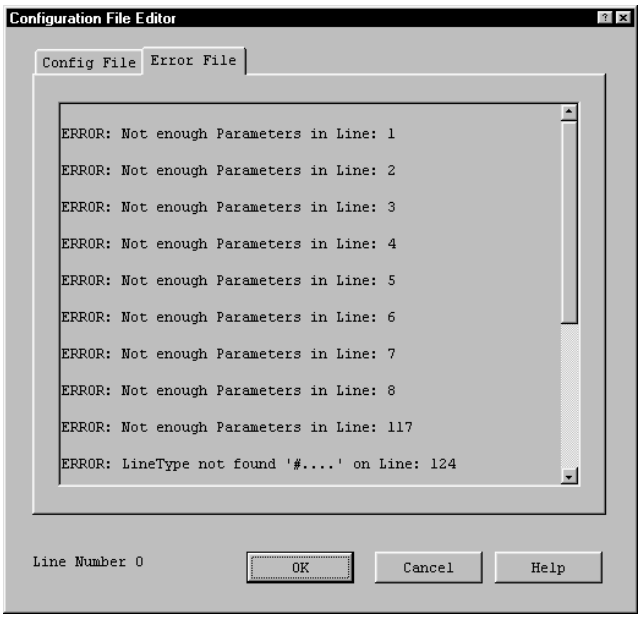


The Configuration File Editor shows the ASCII text file that has been generated by the configuration. The file can simply be edited here.

Fix the errors and press OK. If there are still errors the error box will be shown again stating the amount of errors. Re edit the file again until all the errors are cleared.



Clicking on the Error File Tab shows all of the error currently in the configuration, It gives the problem and line in the configuration that contains the error.

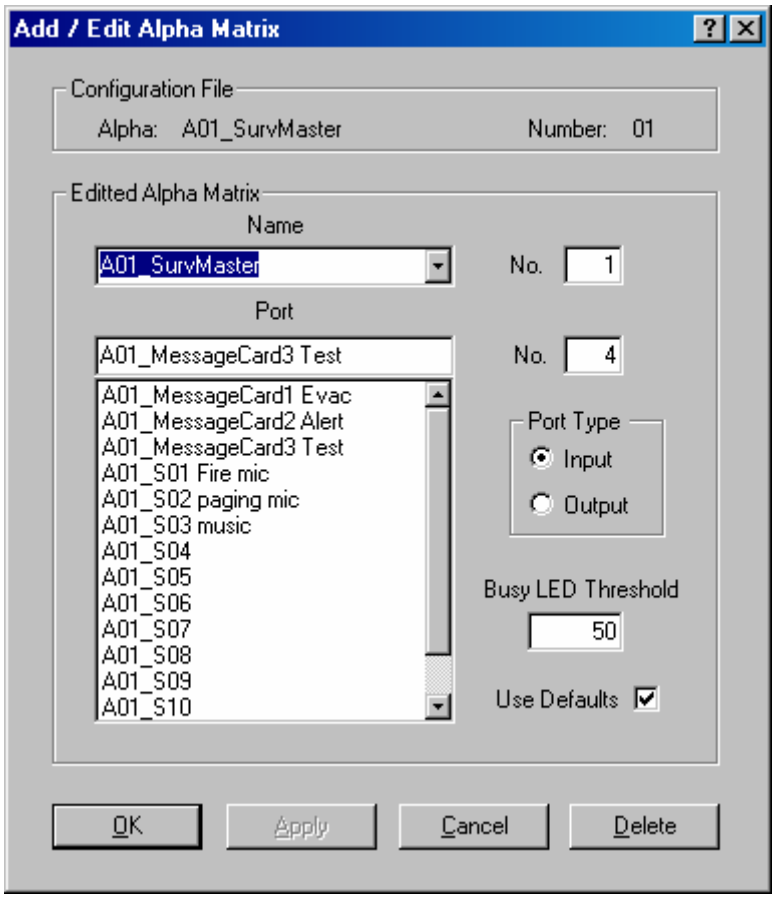

Configuration File Editor
Config File
Error File
ERROR: Not enough Parameters in Line: 1
ERROR: Not enough Parameters in Line: 2
ERROR: Not enough Parameters in Line: 3
ERROR: Not enough Parameters in Line: 4
ERROR: Not enough Parameters in Line: 5
ERROR: Not enough Parameters in Line: 6
ERROR: Not enough Parameters in Line: 7
ERROR: Not enough Parameters in Line: 8
ERROR: Not enough Parameters in Line: 117
ERROR: LineType not found '#....' on Line: 124
Line Number 0
OK
Cancel
Help

5 Edit screens

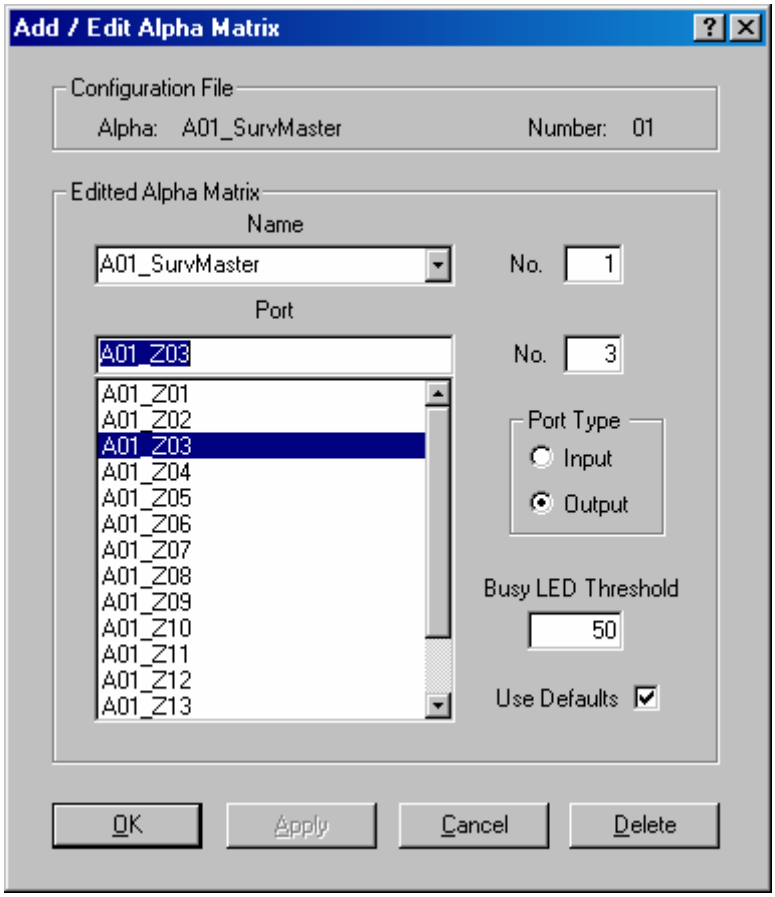
5.1 Edit Matrix

Function;

- Add an Alpha matrix to a system
- Assign audio inputs and outputs to a matrix.
- Set the Busy threshold



Audio inputs



Audio outputs (zones)

Matrix Name	This allows you to name each matrix. This is the name that is displayed on the Alpha menu screen
Matrix No	Indicates the matrix unique ID number
Port Type	Select Input or Output to switch between I/O types
Port Name	Each Input and Output can be given a unique name.
Port ID	This will indicate the physical ID of each input or output
Busy LED Threshold	Sets the threshold at which the input or output will give a Busy output indication
Use Defaults	When adding a new matrix uses the default values for audio sources and destinations from the template file. Note that when a new file is created, new Matrix 1 always uses the default values.

The following inputs are allocated to message cards

Message card 1 = Input 2
Message card 2 = Input 3
Message card 3 = Input 4

The following inputs are allocated to audio sources

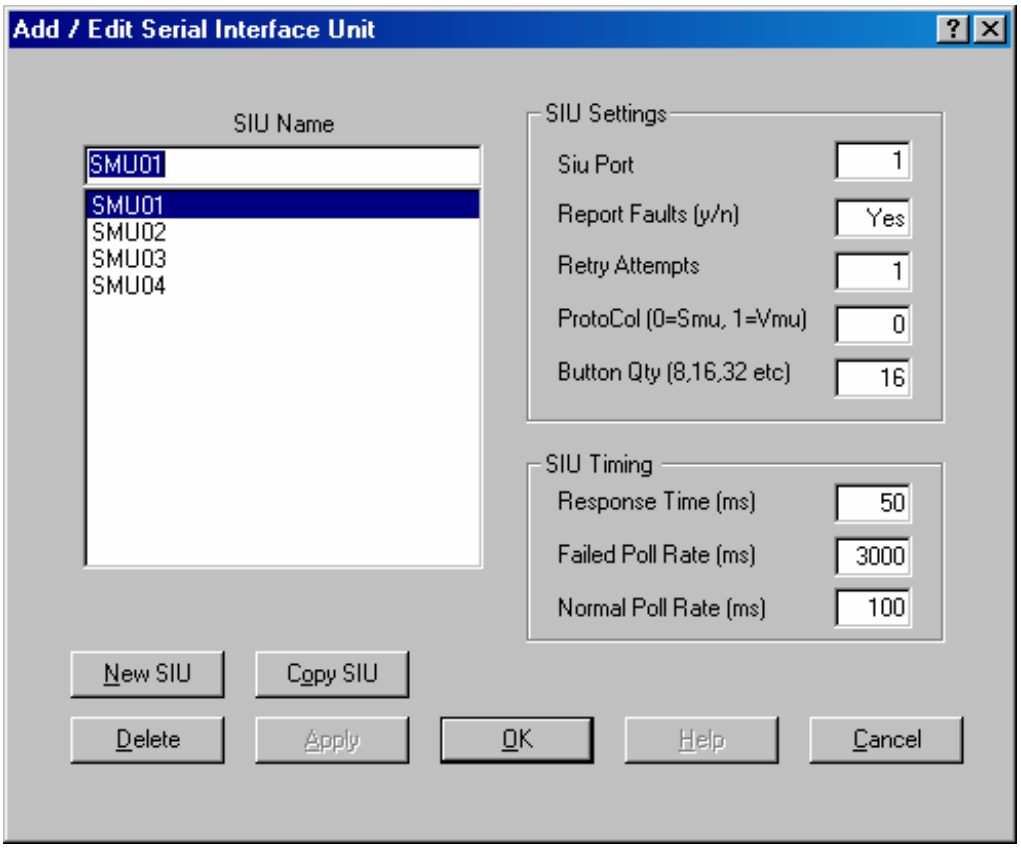
Source 1 = Input 5
" " "
Source 12 = Input 16

To Delete the properties press delete, and then Ok to accept the Changes

5.2 Edit SIU

Function;

- Create & edit serial microphone units or serial interface units



SIU Name	Each mic unit can be given a unit name.
SIU Port	The serial port (1 – 8) into which the mic unit is connected
Report Faults	The mic unit can be configured to report any communications faults to the FMS system.
Retry Attempts	Sets the amount of communications retries to a failed mic unit.
ProtCol	Set for 0 for Serial Microphone Units (SMU) or 1 for Virtual Microphone Unit (ie PC)
Button Qty	Number of buttons on the microphone unit
Response Time	Set the time limit that the *alpha* waits for a reply from a polled mic unit (do not change)
Failed Poll Rate	Sets the frequency at which the mic unit is attempted to be polled by the *alpha* after a comms failed (do not change)
Normal Poll Rate	Sets the frequency at which the *alpha* communicates with the mic unit (do not change)
New SIU	Create a new SIU/SMU
Copy SIU	Copies an existing SIU configuration

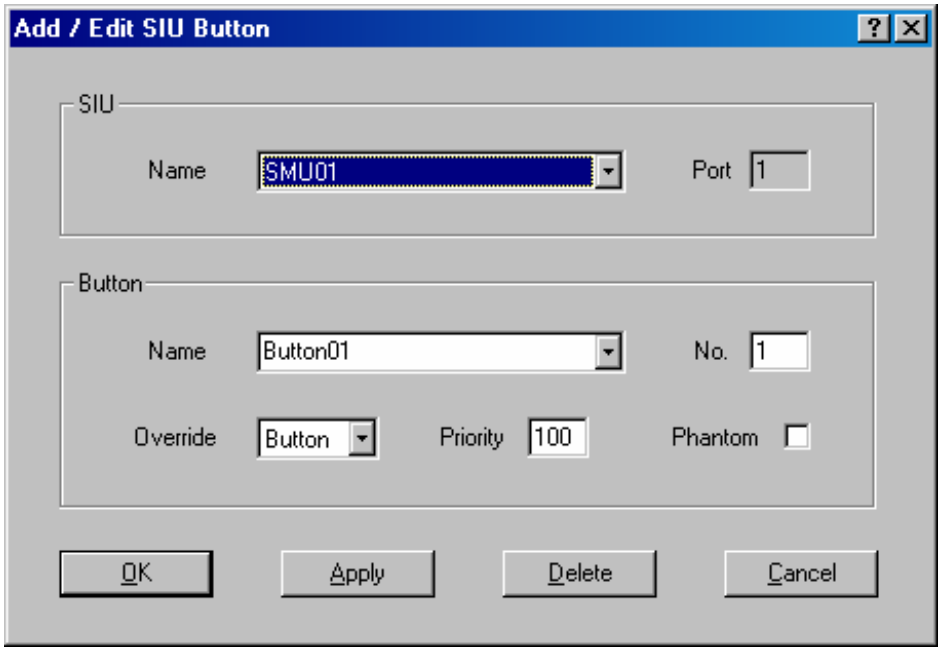
Press Apply to make the changes, and Ok to accept the Changes

To Delete the properties press delete, and then Ok to accept the Changes

5.3 Edit Button

Function;

- Add, name and edit buttons on Serial Microphone Units or Serial Interface Units
- Allocate priorities



SIU Name	Select the SIU of which you wish to edit the button configuration
Button Name	Selects The button you wish to configure
Button ID	Indicated the ID number of the selected button
Button Override	Select for the button to be overriden by either another zone or another button
Button Priority	Each button can be configured to have its own priority (1 – 256)
Phantom	Enables the chosen button to make Phantom calls (see Appendix in this manual for explanation of Phantom Calls)

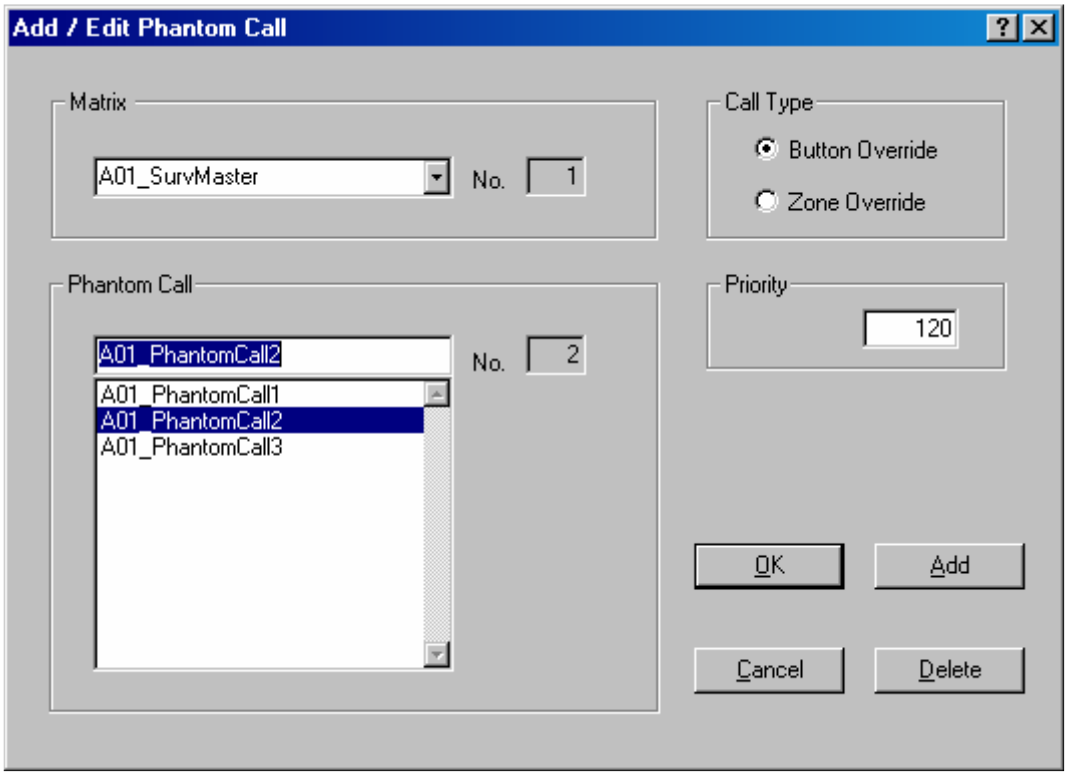
Press Apply to make the changes, and Ok to accept the Changes

To Delete the properties press delete, and then Ok to accept the Changes

5.4 Edit Phantom Call

Function;

- Allocate each phantom call a unique name.



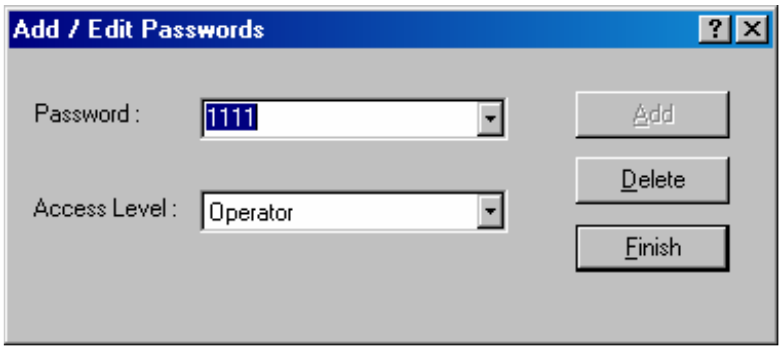
Matrix	The identifier of the matrix hosting the Phantom Call
Phantom Call	A unique identifier for each Phantom call available on the matrix
Call Type	Select for the button to be overriden by either another zone or another button
Priority	Phantom call can be configured to have its own priority (1 – 256)

See Appendix in this manual for explanation of Phantom Calls

5.5 Password

Function;

- Change the passwords on the Alpha allowing different levels of user access.



Password	Input a Password
Access Level	Select the level of Access. Passer-by, User, Engineer or Superuser.

Press Add to add a user, Press Finish to accept the Changes

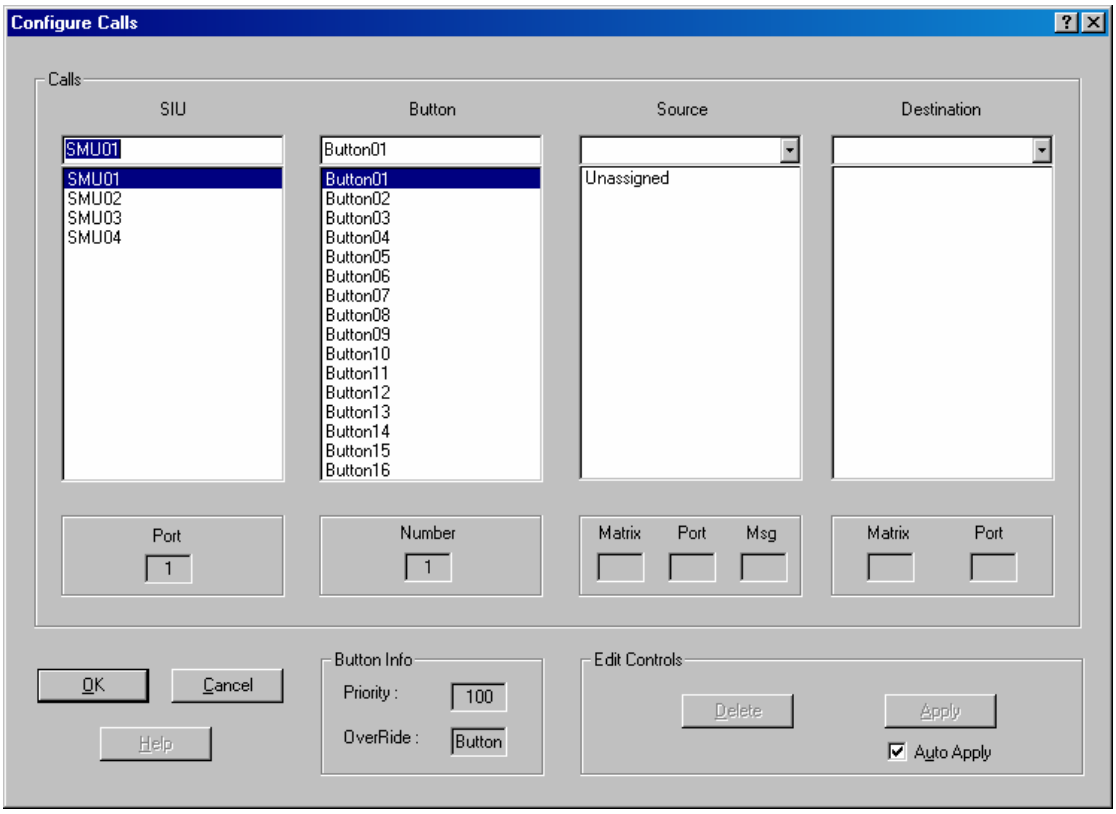
Press Delete to remove a user, and then Finish to accept the Changes

6 Configure screens

6.1 Calls

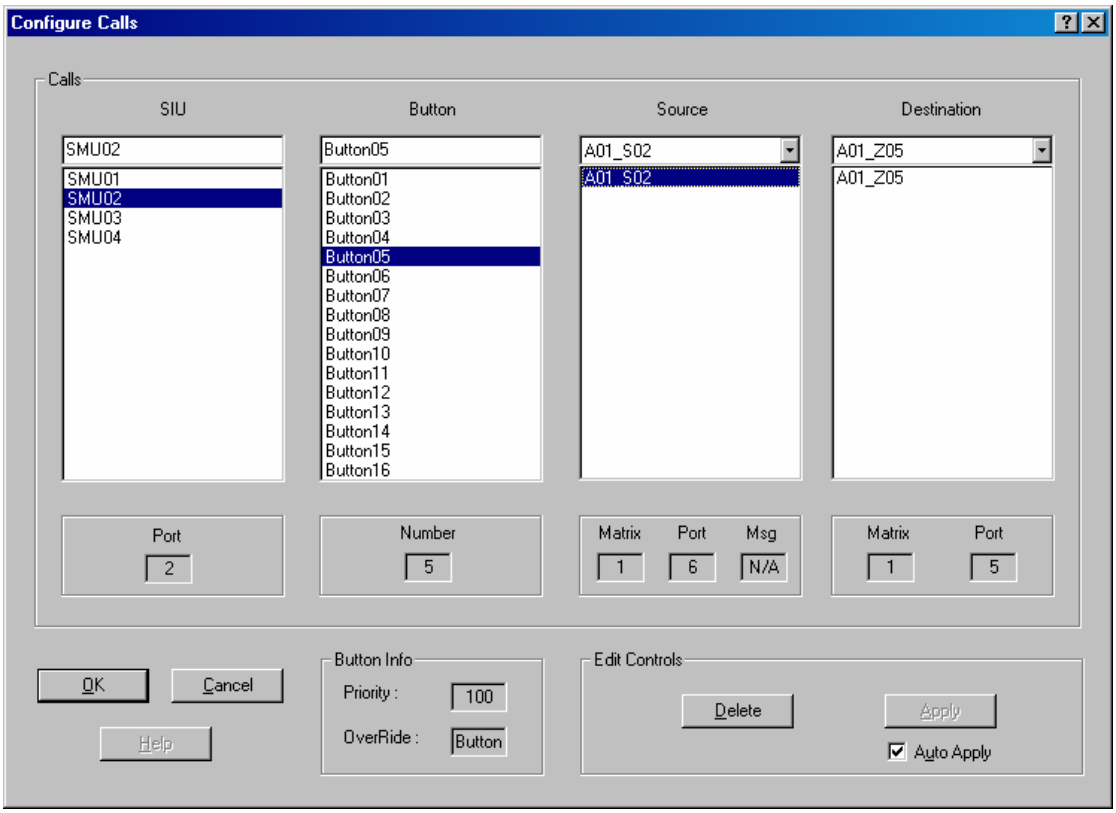
Function;

- Configure and edit the function of buttons on Serial Microphone Units or Serial Interface Units
- Configure the source and destination for each button



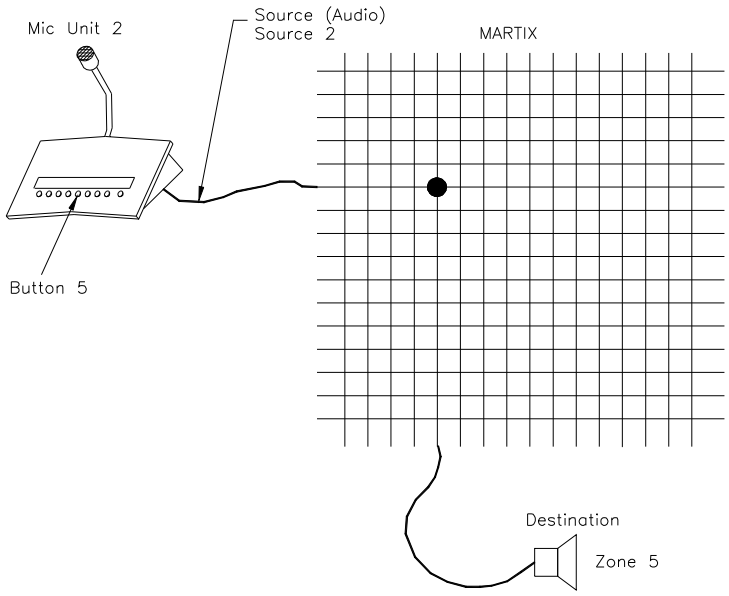
SIU Name	Select the SIU of which you wish to edit the button configuration
Button Name	Selects the button you wish to configure
Source	Select the source which is required to be routed
Destination	Select for the output zone
Auto Apply	Ticking this box will apply the button program automatically without having to press Apply.
SIU Port	Shows the selected serial port
Button number	Shows the number of the currently selected button
Source matrix	Shows the matrix number of the selected source
Source Port	Shows the input port number of the selected source
Source Msg	Shows the message number of the selected source
Destination Matrix	Shows the matrix number of the selected destination
Destination Port	Shows the output port number of the selected destination
Button info Priority	Shows the priority of the selected button
Button info OverRide	Shows the priority over-ride type of the selected button (Button or Zone)

6.1.1 Example 1

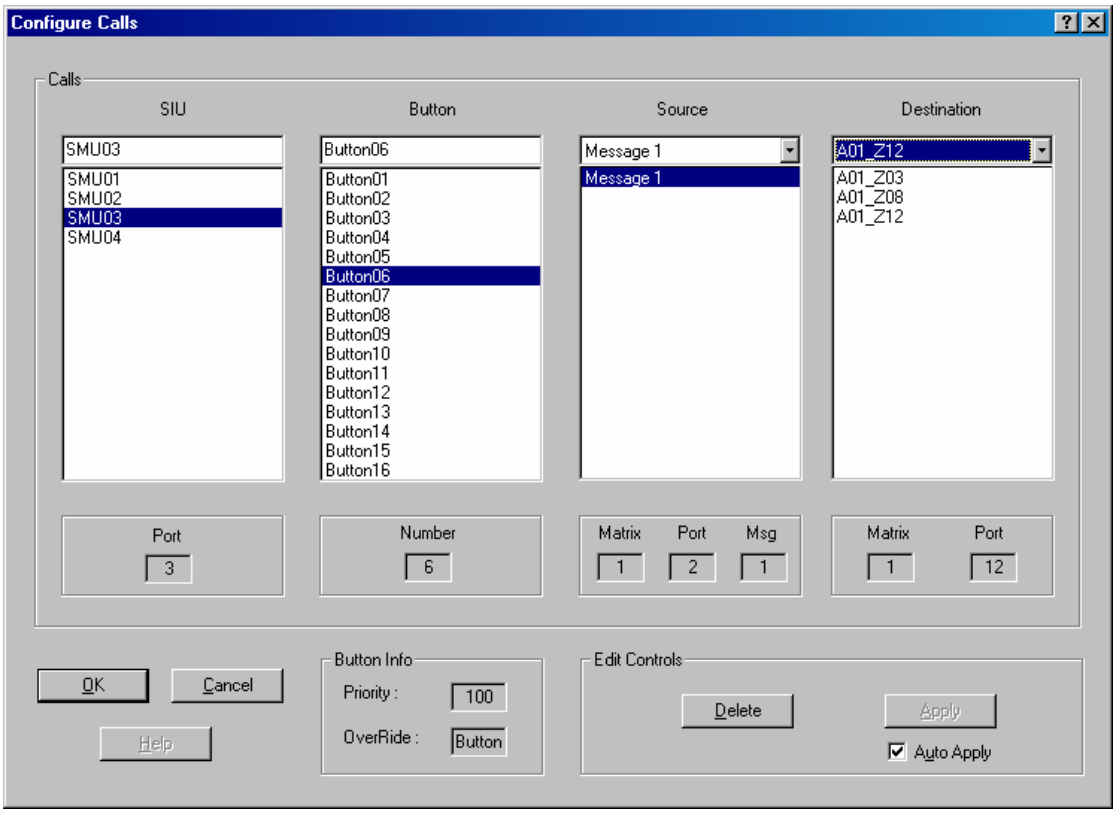


This example shows the Routing of a microphone Audio Source to its Destination, dependant upon a button selection on a specific SIU. Shown below is how the above configuration would work in practice.

Pressing Button 5 on Mic unit 2 will route audio source 2 (the microphone) to zone 5.

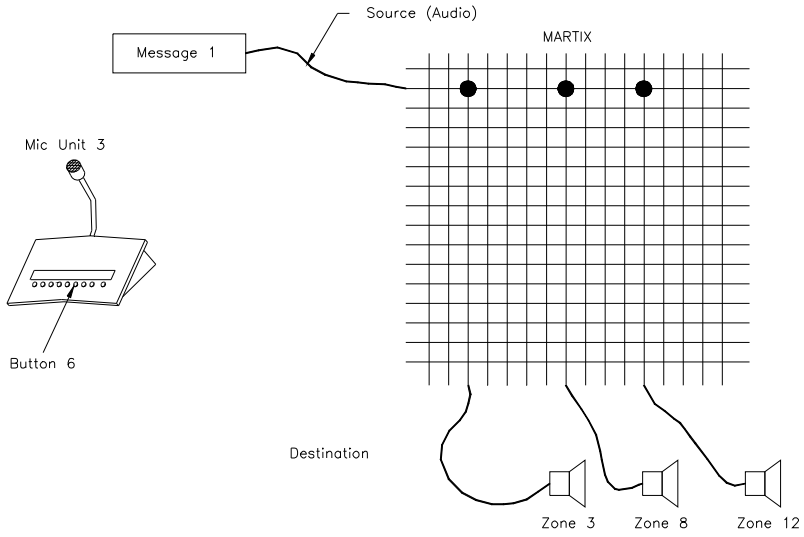


6.1.2 Example 2



This example shows the Routing of a message as the audio source to multiple destinations dependant upon a button selection on a specific SIU. Shown below is how the above configuration would work in practice

Pressing Button 6 on Mic unit 3 will route message 1 to zone 3, 8 & 12.



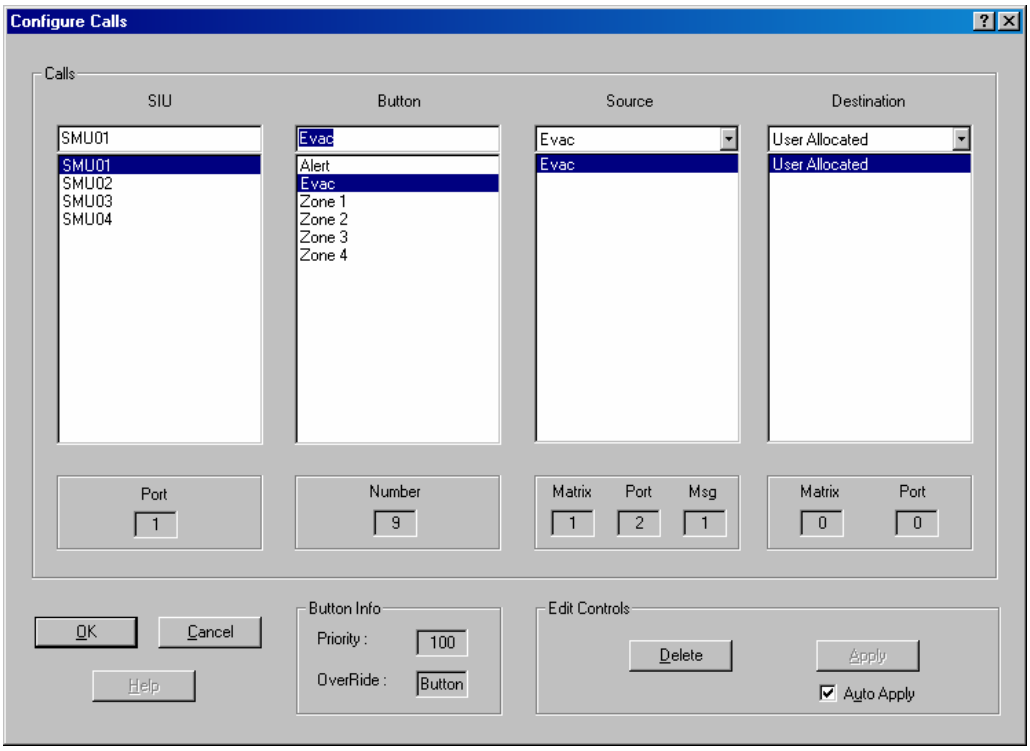
6.2 "User Allocated" destinations

Function;

- Allows the operator to select messages and zones from one Serial microphone.
- Allows the same microphone unit to make live calls or play messages to selected zones.

The User Allocated selection can only be made for message sources ***not*** audio inputs.

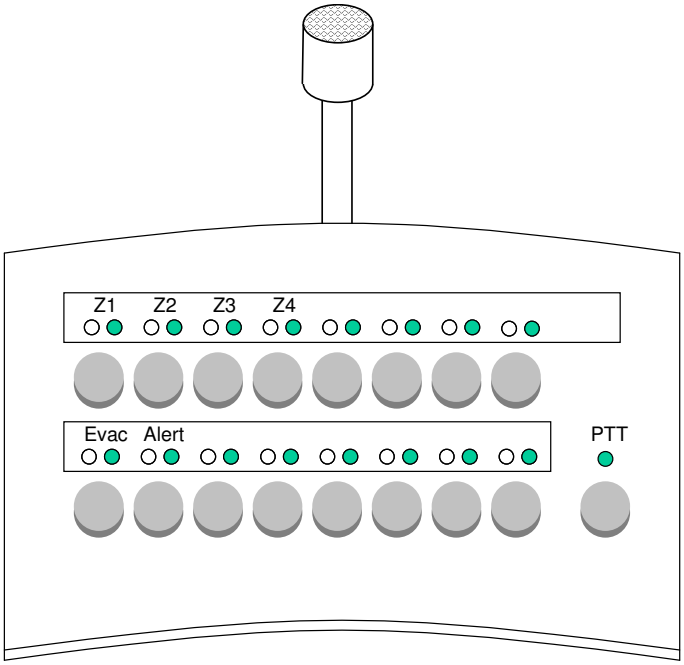
Within the Configure Calls screen a destination called User Allocated can be allocated to a button. This routes the message to zones previously selected on the mic when the PTT is pressed.



Example; Button 9 (Evac), source = Evac message, destination = User Allocated.

If the zone is selected followed by the PTT then the source and destination programmed for the zone button are routed.

However, if a button with User Allocated is pressed together with a zone selection then the message is routed to the selected zone.



For example;

1. The above mic is programmed to make live announcements or message calls to zones 1, 2, 3 & 4.

2. Select zones 1 & 2 followed by PTT will route the mic.

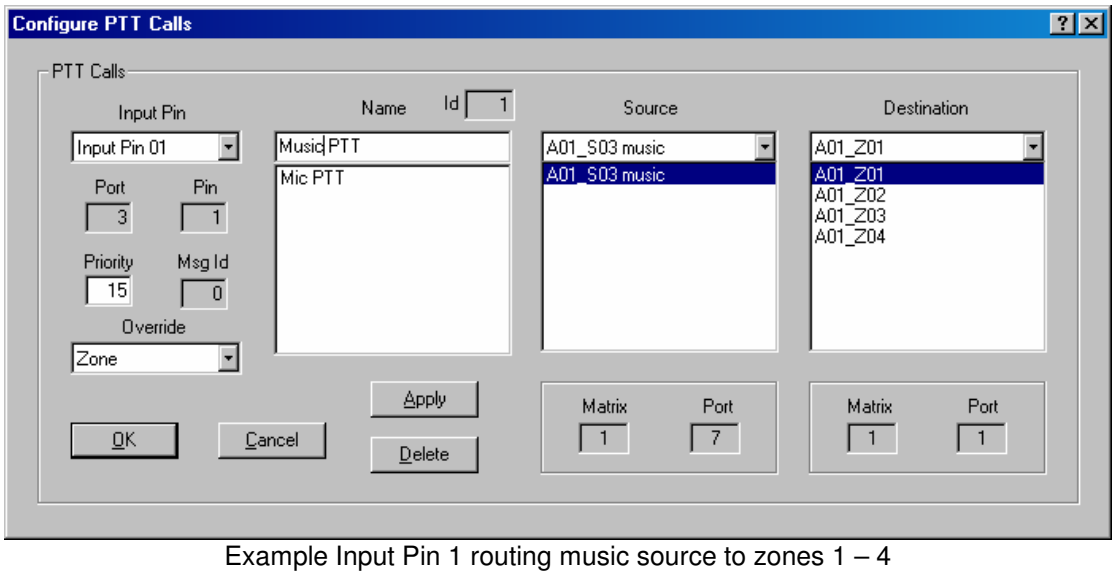
3. Select zones 1 & 2 *and* the Evac button followed by the PTT will route the Evac message to Zones 1 & 2.

Note that the call is made at the priority of the zone selection button.

6.3 PTT calls

Function;

- Configure and edit the function of parallel input pins (PTTs)
- Configure the source, destination and priority for each PTT input



Example Input Pin 1 routing music source to zones 1 – 4

PTT Name	Name of PTT signals
Input Pin Number	Set up the input pin that will be used for the PTT signal.
Source	Source input you wish to route
Destination	Destination you require your source input to be routed to.
Priority	Sets the priority of the PTT signal
OverRide	Configures the PTT to be either overriden by another button or a complete Zone.
Source matrix	Shows the matrix number of the selected source
Source Port	Shows the input port number of the selected source
Destination Matrix	Shows the matrix number of the selected destination
Destination Port	Shows the output port number of the selected destination

This Setup screen is used primarily to configure the operation of the SMU 1 microphones. This pre configures the source and destination routing for when the PTT button is pressed. The PTT is not limited to this, it could also be configured to accept any closing or opening contact e.g. from a fire panel and route a source, e.g. an Evacuation message to a destination.

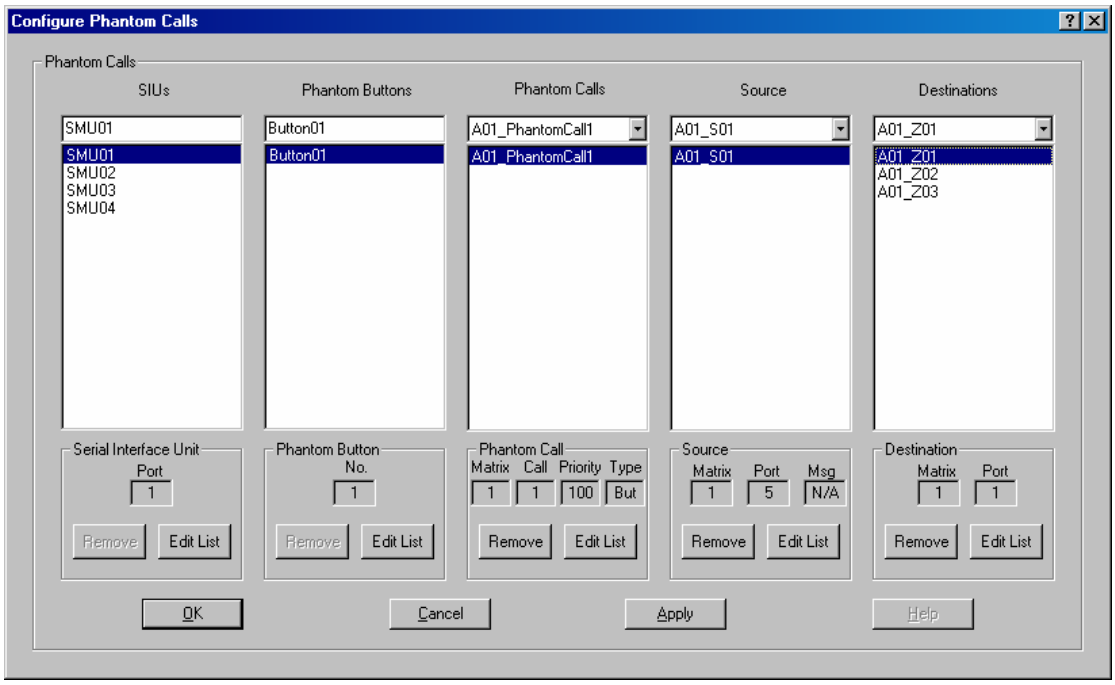
Press Update to make the changes, and Ok to accept the Changes

To Delete the properties press delete, and then Ok to accept the Changes

6.4 Phantom Calls

Function;

- Configure and edit the function of Phantom Calls
- Configure the source and destination for each Phantom button



SIU Name	Select the SIU of which you wish to edit the button configuration
Phantom buttons	Select the Phantom button. Shows only the buttons allocated for Phantom calls on the selected microphone
Phantom Calls	Select the Phantom Called called by this button.
Source	Select the source which is required to be routed
Destination	Select the output zone(s) to be routed

See Appendix in this manual for explanation of Phantom Calls

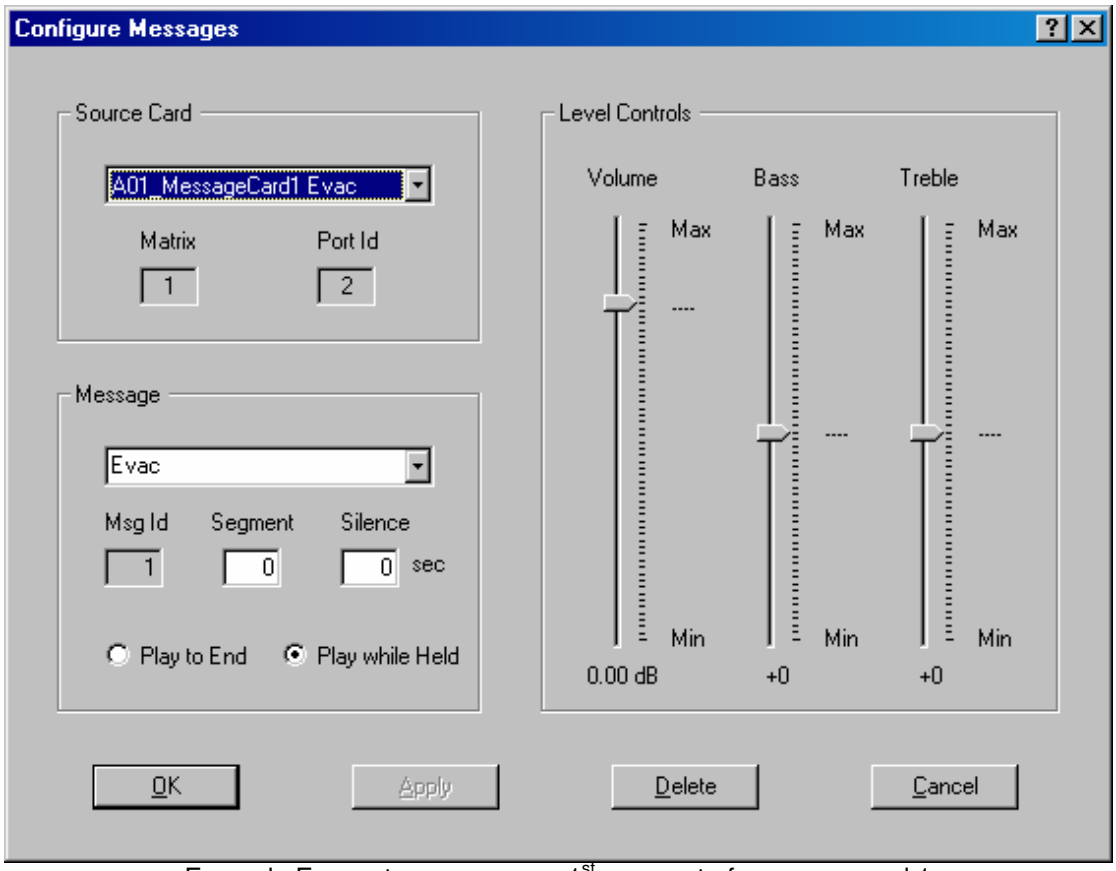
Press Update to make the changes, and Ok to accept the Changes

To Delete the properties press delete, and then Ok to accept the Changes

6.5 Messages

Function;

- Allocate messages to message cards
- Set message function, volume, bass & treble.



Example Evacuate message on 1st segment of message card 1

Source Card	Select the source message card 1,2, or 3
Message Name	You can give each message a informative name
Message Id	Each message has a unique Id, shown here.
Segment	Each D776 Message card is split into 10 segments. Select here the segment in which the message is held. The first segment is 0.
Silence	Allows you to configure a fixed length of silence after a message.
Playback type	Each message has the option of either playing the whole message to the end when the button has been pressed and released or only playing the message while the button is held
Level Controls	The sliders provide Volume and EQ controls on a per message biases. The Bass and Treble controls do not affect the 20kHz surveillance tone.

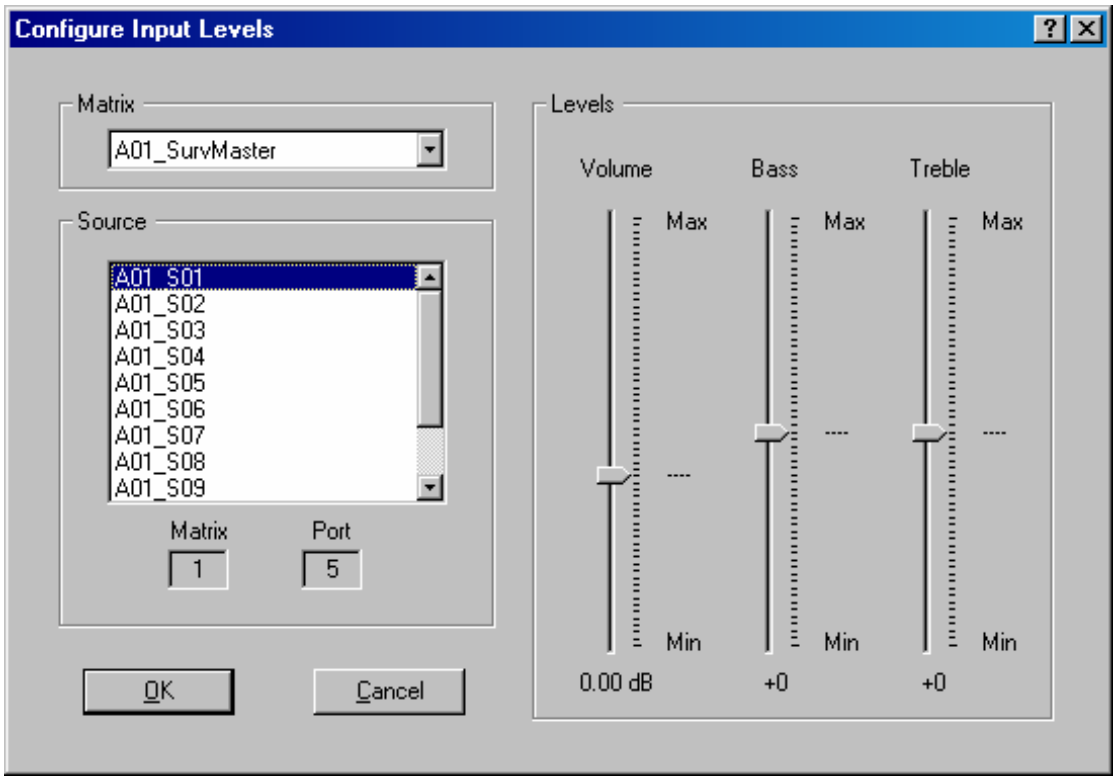
Press Apply to make the changes, and Ok to accept the Changes

To Delete the properties press delete, and then Ok to accept the Changes

6.6 Input Levels

Function;

- Set audio input volume, bass & treble.



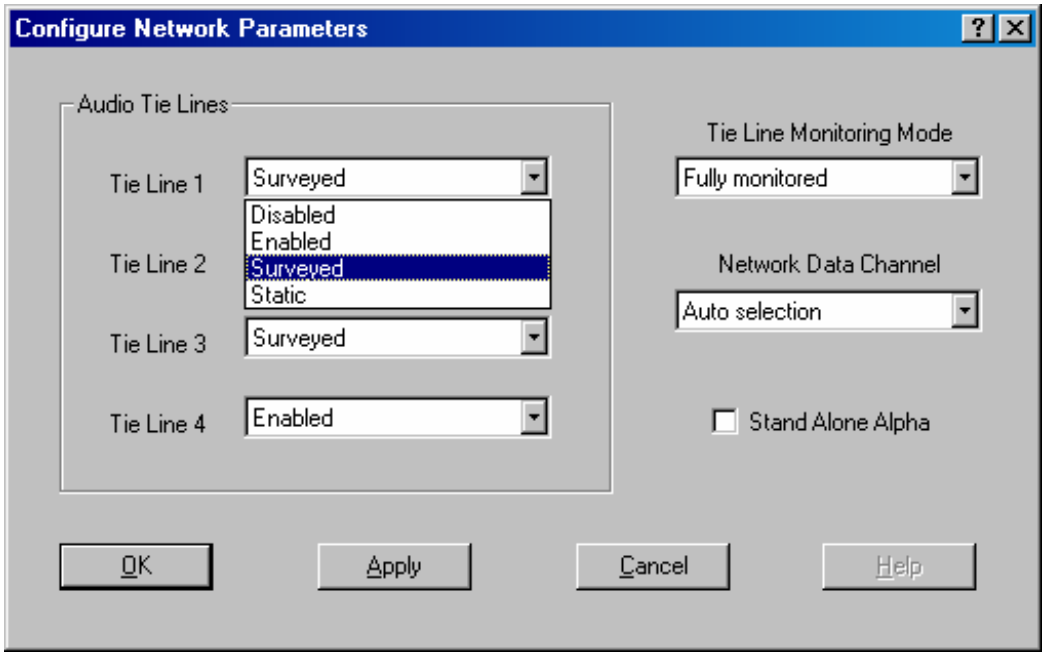
Matrix	Allows the operator to change the input levels on different matrices on a network
Source	Selects the audio source input to modify
Controls	Set the individual Volume and EQ levels of the selected audio input
Source matrix	Shows the matrix number of the selected source
Source Port	Shows the input port number of the selected source

To accept the changes you have make press

6.7 Network Parameters

Function;

- Activate audio tie lines on a network system.
- Set surveillance and monitoring levels.
- Allocate data lines on a network system



Audio Tie lines	Select the surveillance level for each audio tie line
Tie line monitoring mode	Determines the monitoring type used over the audio network
Network data channel	Determines the data channel selection; Auto selection = Uses the data channel determined by the NI2000 (for use with NI2000 only) Fixed – channel 1 = Manually select data line 1 Fixed – channel 2 = Manually select data line 2
Standalone Alpha	Select if Alpha does not form part of a network

The following combinations of Tie Line and Monitoring Modes are available

Tie Line	**Monitoring mode**	**Description**	**Usage**
Disabled	Not monitored	Tie line not used	None
Enabled	Not monitored	Tie line available for use but not monitored (no fault detection)	Paging calls - Priority 20 - 199
Surveyed	Not monitored	Tie line available for use but not monitored (no fault detection).	Not recommended
Static	Not monitored	Line can only be used by low priority sources (no fault detection)	BGM – Priority 1 – 19 (typically line 4)
Disabled	Fully monitored	Tie line not used	None
Enabled	Fully monitored	Tie line available for use and only used if no fault detected	Paging calls - Priority 20 - 199
Surveyed	Fully monitored	Tie line included in the critical surveillance path (ie 20KHz from a fire mic)	Emergency calls – Priority 200 – 255 (& paging calls 20 – 199)
Static	Fully monitored	Tie line available for use by low priority sources and only used if no fault detected	BGM – Priority 1 – 19 (typically line 4)

NOTE; Tie line 4 cannot be monitored

Monitored when Quiet - Tie line is not monitored when a call is being made on that tie line.

A source of priority 1 – 19 will only be transmitted over static tie lines. (ie if a source has a priority 15

Static tie lines will only accept priorities of 1 – 19.

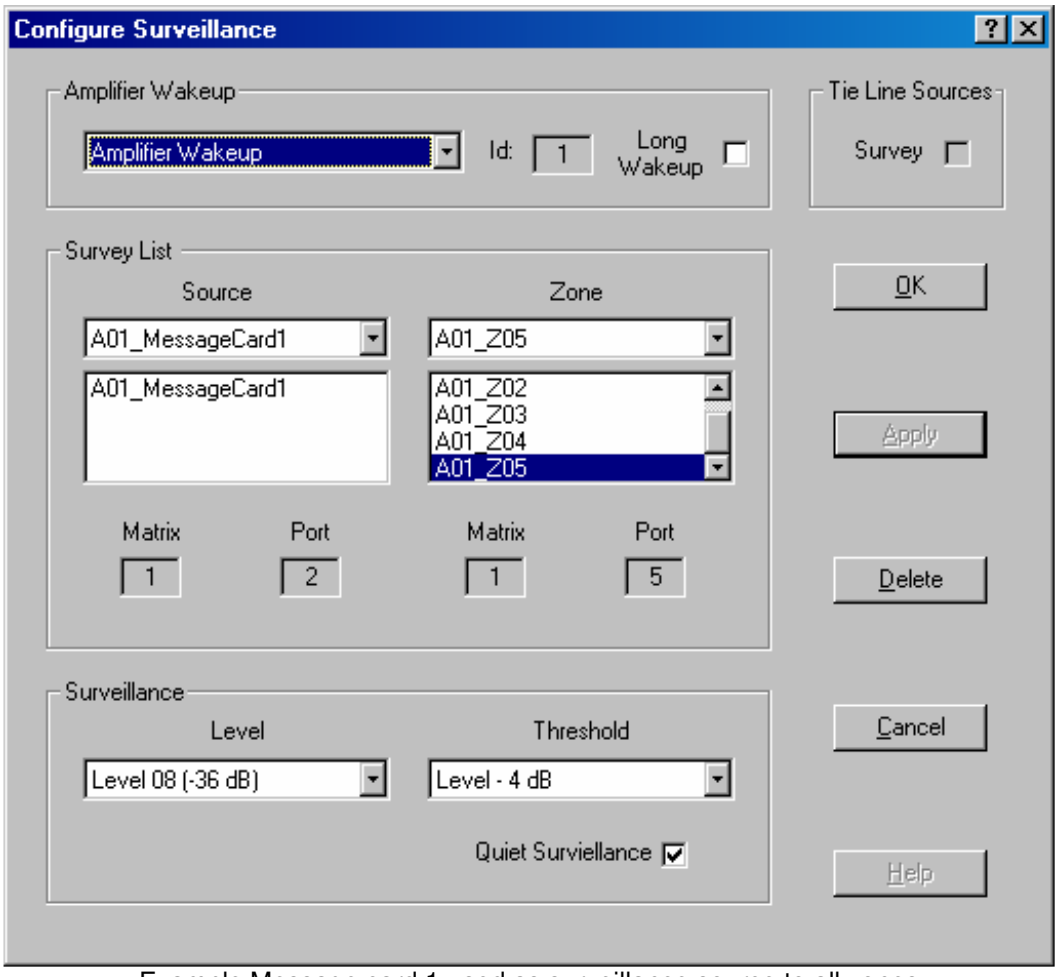
IMPORTANT
Emergency calls of 200 – 256 will **only** use Surveyed and Fully Monitored tie lines and will **NOT** use tie lines that are not surveyed (ie just Enabled).

Press Apply to make the changes, and Ok to accept the Changes

6.8 Surveillance

Function;

- Configure audio surveillance sources and monitored zones.
- Set surveillance and monitoring levels.



Example Message card 1 used as surveillance source to all zones

Amplifier Wake-up	Name of the Wake Up signal to operate before the broadcasting the 20kHz surveillance tone.
Long Wakeup	Selected if Vector amplifiers are used
Survey Source	Select the source of the surveillance tone.
Survey Zone	Add the zones the surveillance is required to cover.
Surveillance Level	Output level broadcast from the internal surveillance tone generator (ie message card or ident system)
Surveillance	Only operates on a network system. Surveillance input threshold below

Threshold	which the audio network card will stop sending Idents. The network card will fail if it's surveillance input drops by more than the threshold.
Quiet Surveillance	Tick to activate. When a surveillance source is making a call to selected zones, these zones will not receive surveillance tones from any other surveilled source. Also, zones that are not selected will not receive the surveillance tone from the source making the broadcast. This function stops broadcast drop-out and clicks.

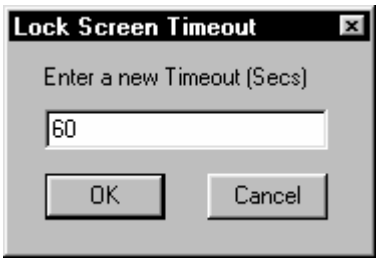
Press Apply to make the changes, and Ok to accept the Changes

To Delete the properties press delete, and then Ok to accept the Changes

6.9 Lock Time

Function;

- Screen lock time adjustment.



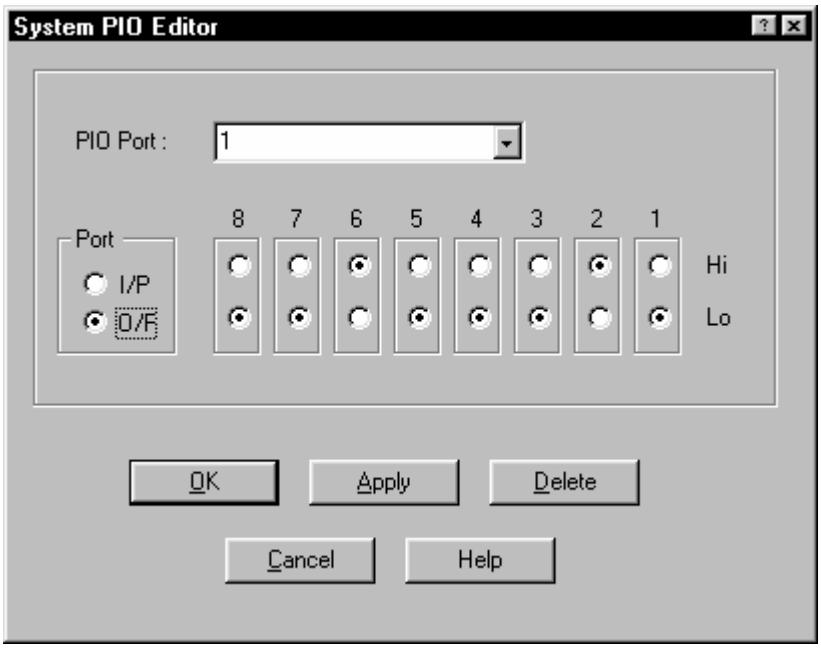
Enter a Time for the Screen lock to activate, to prevent unauthorized users from using the configuration software.

7 Program I/O screens

7.1 Active High/Low

Function;

- Configure parallel input and outputs to be active high or active low.



PIO Port	Select either 1 or 2 for first or second bank of 8 I/O points.
Port	Selects IO type you wish to edit (input or Output)
8 - 1	Enable you to select the status of any input or output to be Active Hi or Active Low

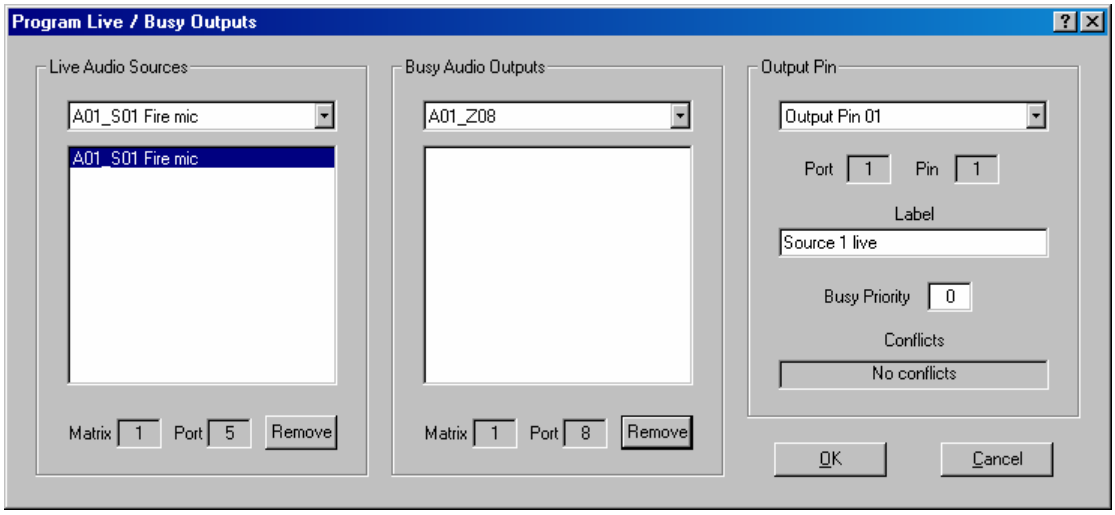
Press Apply to make the changes, and Ok to accept the Changes

To Delete the properties press delete, and then Ok to accept the Changes

7.2 Edit Live/Busy outputs

Function;

- Configure parallel output pins to activate on Live Audio inputs or Busy Audio outputs.



Output Pin	Select the parallel I/O pin for the Live/Busy function
Label	Live/Busy unique identifying label
Busy Priority	Minimum priority for Busy to operate.
Busy	Name of the Busy control signal
Live Audio Sources	Select the audio sources to drive the output pin when Live
Busy Audio Outputs	Select the audio outputs to drive the output pin when Busy
Conflicts	Shows if the output pin has already been allocated elsewhere in the configuration (ie Trigger). Conflicts ARE allowed.

Note; If output pin 16 is required to be used other than for Amplifier Wakeup, the jumpers need to be changed on the Input Termination Panel (ITP). The default is to use Pin 16 for amplifier wakeup.

Press Apply to make the changes, and Ok to accept the Changes

To Delete the properties press delete, and then Ok to accept the Changes

7.3 Amplifier Wakeup

Function;

- Configure parallel output pin 16 as Amplifier Wakeup.

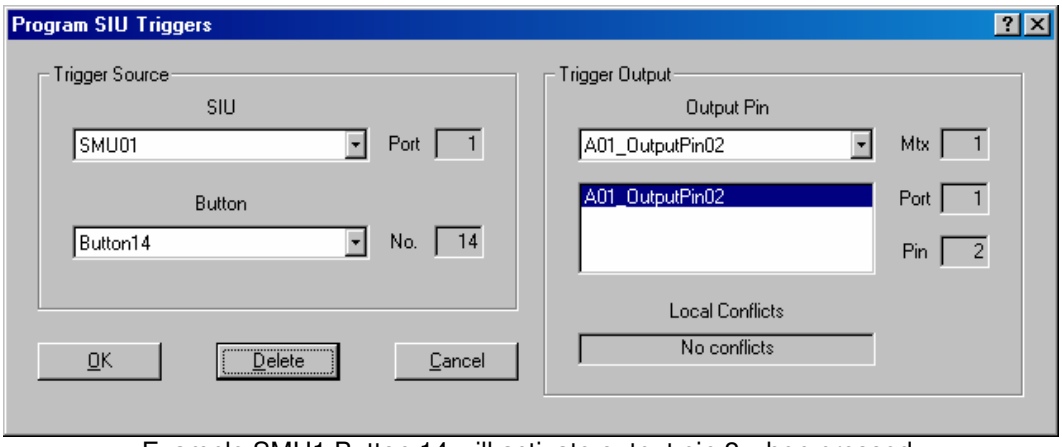
Output Pin	Select the output pin for Wakeup (typically pin 16)
Label	Wakeup unique identifying label
Id	1 or 2 (typically 1)

Press Apply to make the changes, and Ok to accept the Changes

7.4 SIU Trigger

Function;

- Configure a button on an SMU/SIU panel to trigger a parallel output pin.



Example SMU1 Button 14 will activate output pin 2 when pressed.

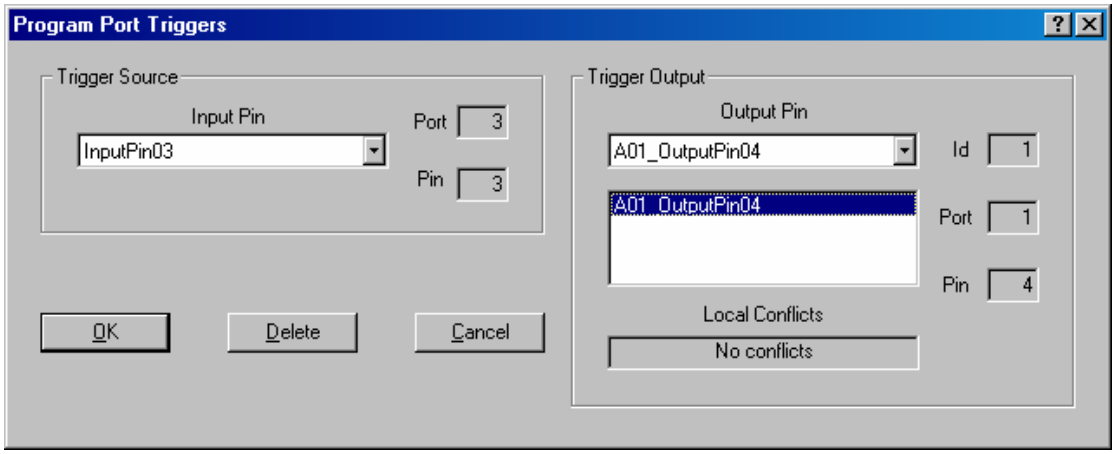
SIU Name	Select the SIU that will generate the trigger
Button	Select the button which will cause the trigger
Trigger output	Select the output pin you wish to be triggered
Conflicts	Shows if the output pin has already been allocated elsewhere in the configuration (ie Busy). Conflicts ARE allowed.

Press Apply to make the changes, and Ok to accept the Changes

7.5 Port Trigger

Function;

- Configure a parallel input pin to trigger a parallel output pin.



Example Input Pin 3 will activate Output pin 4 when pressed.

Trigger Source	Select the input pin that will generate the trigger
Trigger output	Select the output pin you wish to be triggered
Conflicts	Shows if the output pin has already been allocated elsewhere in the configuration (ie Busy). Conflicts ARE allowed.

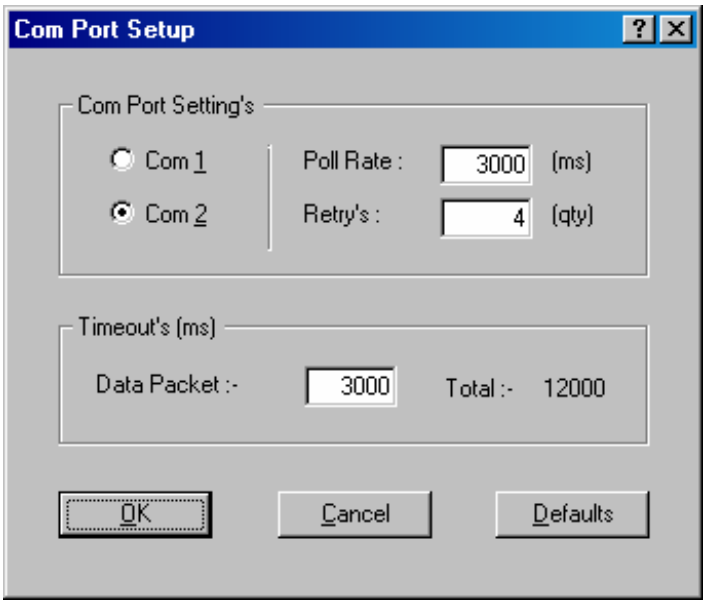
Press Apply to make the changes, and Ok to accept the Changes

8 Com Port screens

8.1 Com Port Setup

Function;

- Configure the communications between PC and Alpha.



Port Settings	Select the communications Port of the Configuration PC you wish to use to communicate to the *alpha*
Poll	Frequency at which the *alpha* is sent messages (polled)
Retry	Configure the amount of time the PC will retry the communications before failing the link.
Data Packet	Time to wait for a response back from the *alpha* after process a packet
Default	Reset defaults

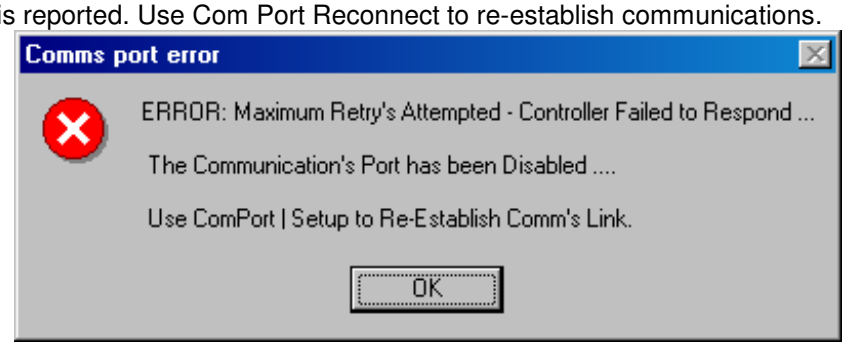
Press Apply to make the changes, and Ok to accept the Changes

8.2 Com Port Reconnect

Function;

- Re-establish communications between PC and Alpha.

If the link between the PC and Alpha is disconnected or the Alpha is de-powered the following Port Error is reported. Use Com Port Reconnect to re-establish communications.


Comms port error
ERROR: Maximum Retry's Attempted - Controller Failed to Respond ...
The Communication's Port has been Disabled ....
Use ComPort | Setup to Re-Establish Comm's Link.
OK

8.3 Com Port Abort

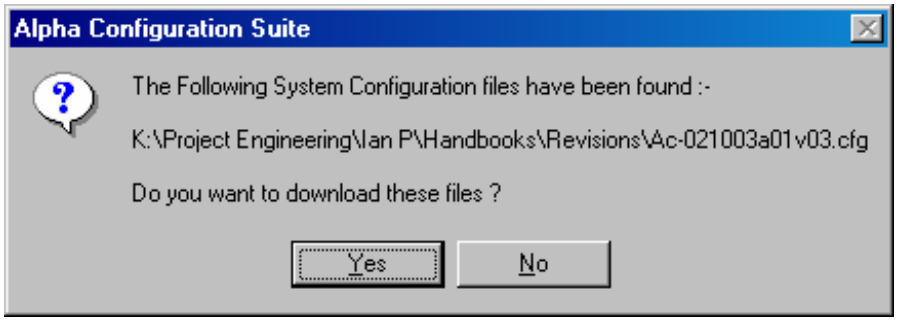
Use Com Port Abort to shut down communications between PC and Alpha.

9 Download screens

9.1 Program Alpha

Function;

- Download the configuration to the Alpha.

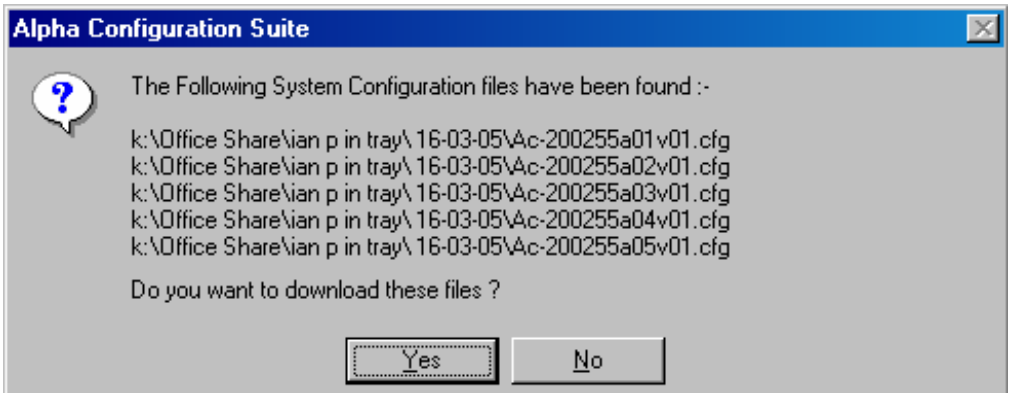

Alpha Configuration Suite
The Following System Configuration files have been found :-
K:\Project Engineering\Ian P\Handbooks\Revisions\Ac-021003a01v03.cfg
Do you want to download these files ?
Yes
No

Yes button	Download the currently loaded configuration file to the Alpha
No button	Do not download

9.2 Program System

Function;

- Download the configurations to ALL Alphas on a network from one Alpha.


Alpha Configuration Suite
The Following System Configuration files have been found :-
k:\Office Share\ian p in tray\16-03-05\Ac-200255a01v01.cfg
k:\Office Share\ian p in tray\16-03-05\Ac-200255a02v01.cfg
k:\Office Share\ian p in tray\16-03-05\Ac-200255a03v01.cfg
k:\Office Share\ian p in tray\16-03-05\Ac-200255a04v01.cfg
k:\Office Share\ian p in tray\16-03-05\Ac-200255a05v01.cfg
Do you want to download these files ?
Yes
No

The Alpha matrix system allows the operator to download the configurations for each network Alpha from one Alpha.

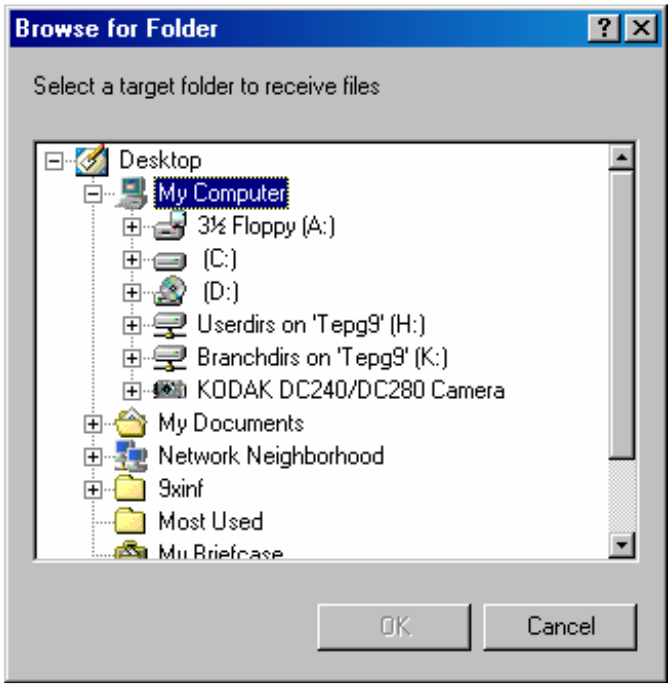
NOTES;
The configuration number for each Alpha file MUST match the physical address of the network Alpha it is destined for (ie Ac-200255a01 will only configure Alpha 1).

The key switch on each Alpha that is being programmed needs to be turned.

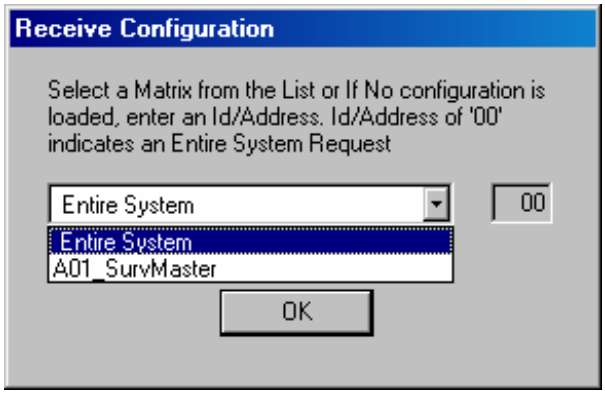
9.3 Receive Configuration

Function;

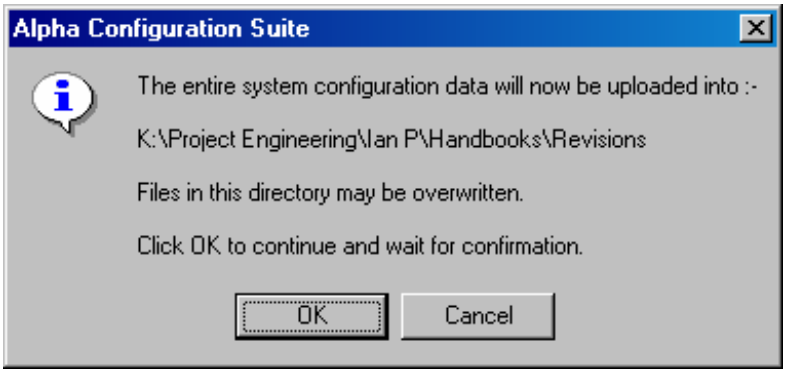
- Copies the current configuration FROM the Alpha TO the PC (recommended before re-configuring an Alpha on site).



The configuration suite prompts for a location folder to store the Alpha configuration.


Receive Configuration
Select a Matrix from the List or If No configuration is loaded, enter an Id/Address. Id/Address of '00' indicates an Entire System Request
Entire System
00
Entire System
A01_SurvMaster
OK

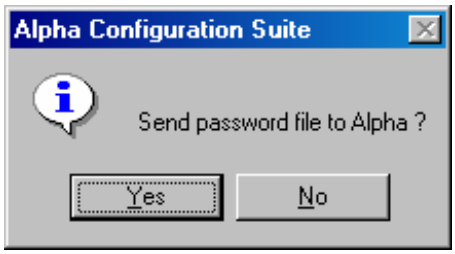
If a network system is used the operator can download the configuration files from all the Alphas on the network. Alternatively, individual files can be retrieved.


Alpha Configuration Suite
The entire system configuration data will now be uploaded into :-
K:\Project Engineering\Ian P\Handbooks\Revisions
Files in this directory may be overwritten.
Click OK to continue and wait for confirmation.
OK
Cancel

9.4 Send Password

Function;

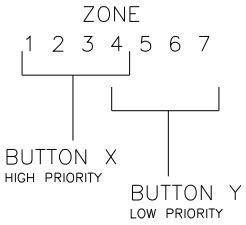
- Sends the password setup to the Alpha



Appendix 1
Button & Zone Over-ride

Button Over-ride

This is a configurable feature of the *alpha* routing selectors i.e. either a serial control unit button or the switch-in 'PTT' ports.

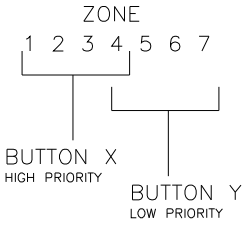


Where button X is pressed and a the signal is routed to Zones 1-4
Button Y will appear busy, this is because it shares Zone 4
If Button Y user has a lower priority their call can NOT be made.

Where button Y is pressed and a the signal is routed to Zones 4-7
Button X will appear busy, this is because it shares Zone 4
If Button X user actives their button then Button Y will be overridden i.e. Button Y audio will be disconnected from zones 4-7 and Button X audio will be connected to Zones 1-4.

Zone Over-ride

This is a configurable feature of the *alpha* routing selectors i.e. either a serial control unit button or the switch-in 'PTT' ports.



Zone override is where only conflicting zones of a low priority user are overridden. Unlike button override where a single conflicting zone on button overrides the whole of the lower priority button.

Where button X is pressed and a the signal is routed to Zones 1-4
Button Y will appear busy, this is because it shares Zone 4
If Button Y user has a lower priority, the call will only appear at Zone 5,6 & 7 (Button X has zone 4).

Where button Y is pressed and a the signal is routed to Zones 4-7
Button X will appear busy, this is because it shares Zone 4
If Button X user actives their button then Button Y will be overridden on zone 4 only i.e. Button Y audio will be disconnected from zone 4 (but continue to broadcast to 5, 6, & 7) and Button X audio will be connected to Zones 1-4.

Appendix 2
Phantom Calls

The Phantom Call allows;

- Any Alpha to access a message (or any other source) on a remote Alpha, while still allowing the local Alpha to control it's message card. This allows a common audio source to be used for messages which means that any person standing at a point where they can hear two speakers with the same message driven by different Alphas will still find the message intelligible. This approach solves the "synchronized audio" problem but does leave the system vulnerable if the common message source fails.

- More than one call (local and remote) can be started by the same button allowing a local backup message to be "waiting in the wings" should the message source / network fail.

- More than one source can be started by the same button allowing simultaneous sources/messages to different destinations.

A Phantom call comprises;
Phantom Source

This defines the SIU button that controls the phantom call on the source Alpha and contains a list of links to the phantom calls that it controls on the destination Alphas.

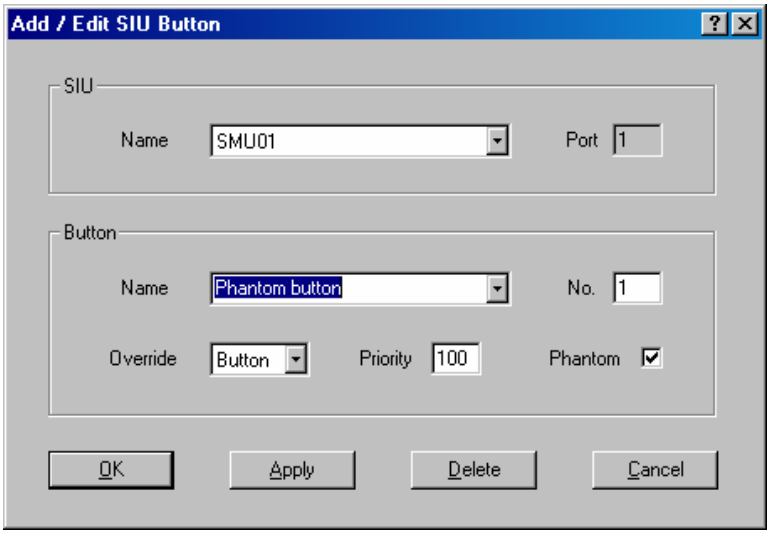
Phantom Destination

This structure is similar to a normal call configuration with the exception that the SIU and button identity are replaced by the phantom call matrix and call number respectively. This phantom call identity is used to link the phantom source and phantom destination together in the software.

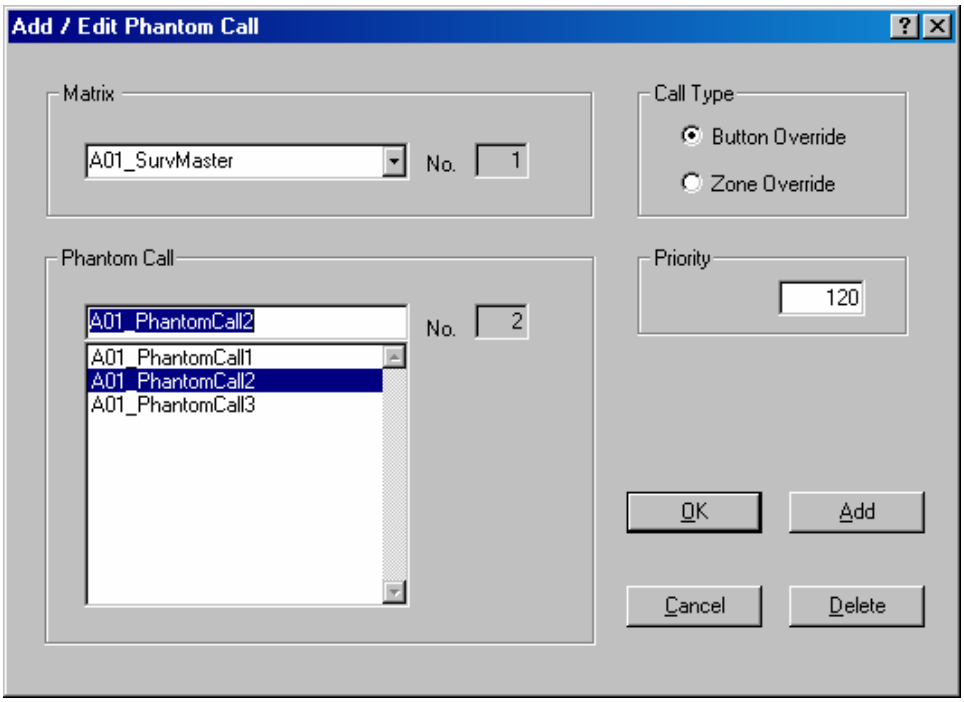
Example;

The following example allows Button no. 1 on SMU01 to launch an Evacuate message to zone 1 AND an Alert message to zone 6.

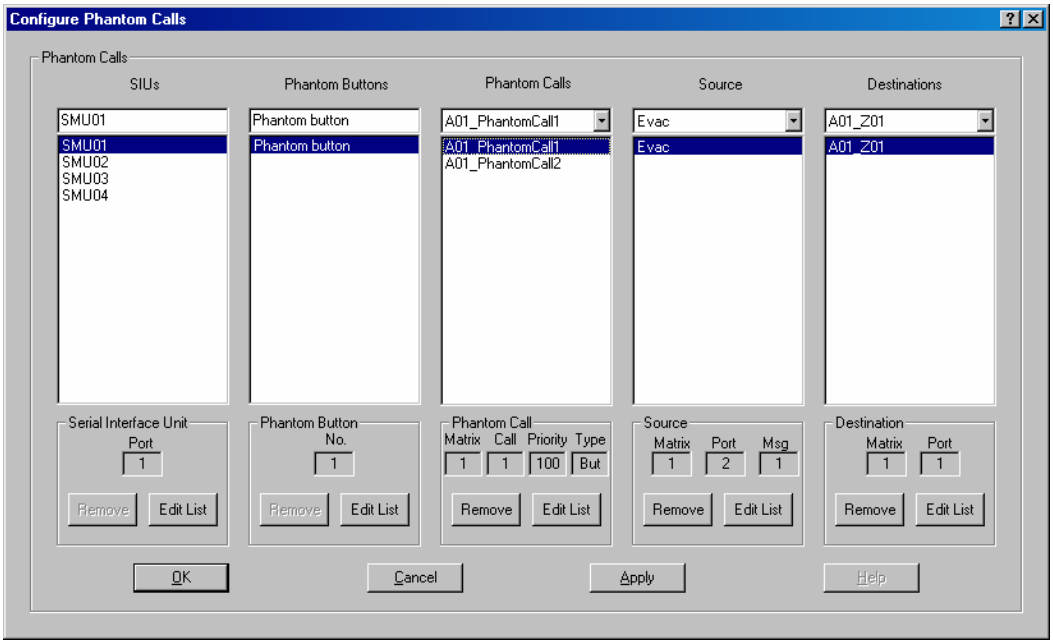
Step 1; Allocate a button on an SIU to be able to make Phantom Calls

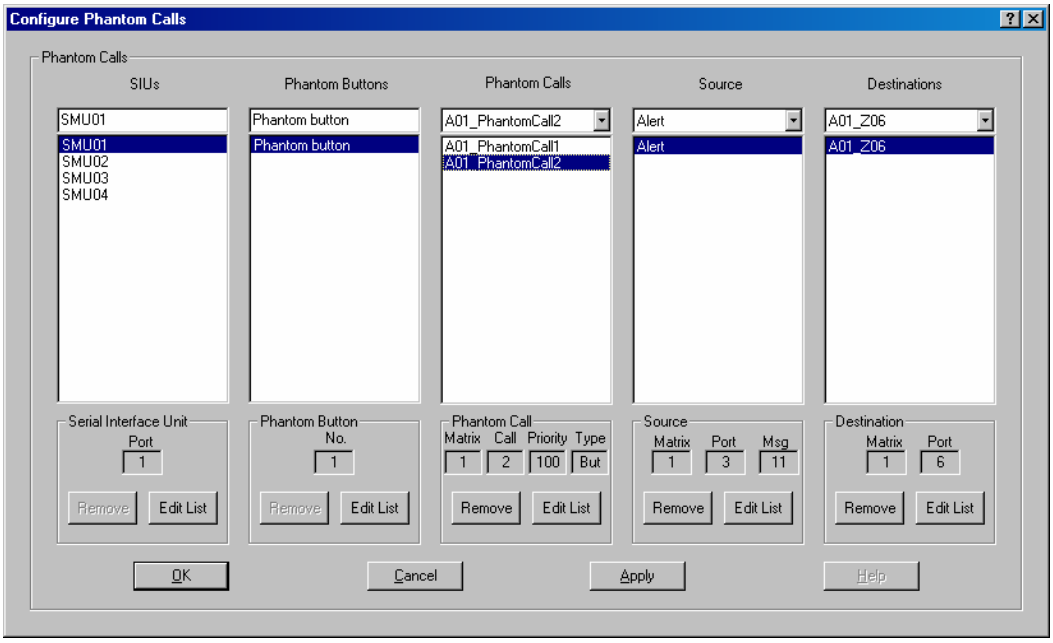


Step 2; Allocate each phantom call a unique name. Each phantom call available within the Alpha is given a unique name (ie if you require a button to trigger two messages simultaneously you require 2 phantom calls).



Step 3; Configure the Phantom button to make the phantom calls from sources to destinations. In this example Button 1 uses PhantomCall1 to route Evac to Zone 1 and PhantomCall2 to route Alert to Zone 6.





The phantom call consists of two parts a “phantom source” and a “phantom destination”.

Appendix 3
Instruction Definitions

The configuration files generated by the configuration suite comprise;

- *.cfg (configuration) files for each Alpha
- A *.def (system definition) file for the system comprising 1 or more Alpha

The *.def file contains information which is common between each Alpha on a network. This information is repeated at the top of each Alpha's configuration file.

System Definition keywords

The following lines appear in the *.def file and ALL the *.cfg files for each Alpha on a network

System definition version.
Checks that the configuration (.cfg) file for each Alpha in a networked system uses the same version of the systemn definition (.def) file.

Keyword	Version
DEFVERS	1-65535

Matrix Definition

Keyword	Name	Mtx No	BThresh	TargetSurv
MATRIXDEF	S	1-64	1-255	0-15

Source Definition

Keyword	Name	Mtx No	Port No	Volume	Bass	Treble
SOURCEDEF	S	1-64	1-16	0-63	0-63	0-63

Zone (Destination) Definition

Keyword	Name	Mtx No	Port No
ZONEDEF	S	1-64	1-255

Message Configuration

Keyword	Name	MsgId	SrcMtx	SrcPrt	Segmt	Volume	Bass	Treble	Surv	Silent	Mode
MSGCFG	S	1-30	1-64	2-4	0-9	0-63	0-63	0-63	0-15	0-10	0-1

Network definition
Defining tie lines, monitoring and data channel

Keyword	TL1Enab	TL2Enab	TL3Enab	TL4Enab	TLMonEnab	DataChan	StdAlone
NETWORK	0-3	0-3	0-3	0-3	0-2	0-2	0-1

Phantom name

Keyword	Name	PhantMtx	PhantCallNo
PHANTNAME	S	1-64	1-1024

Phantom call definition

Keyword	PhantMtx	PhantCallNo	SrcMtx	SrcPort	DestMtx	DestPort	Priority	Overide	MsgId
PHANTOM	1-64	1-1024	1-64	2-16	0-64	0-255	0-255	0-1	0-30

Alpha configuration lines

The following lines appear in the *.cfg file for each Alpha.

Serial Interface/Serial Microphone configuration

Keyword	Number	Button	SrcMtx	SrcPort	DestMtx	DestPort	Priority	Overide	MsgId
SIUCFG	1-255	1-96	1-64	2-16	0-64	0-255	0-255	0-1	0-30

PTT/Parallel Input configuration

Keyword	Number	Port	Bit	SrcMtx	SrcPort	DestMtx	DestPort	Priority	Overide	MsgId
INPUTCFG	N1-16	3-4	1-8	1-64	2-16	0-64	0-16	0-255	0-1	0-30

Busy configuration

Keyword	Name	Port No	Bit No	Matrix	DestPrt	Priorty
BUSY	S	1-2	1-8	1-64	1-16	0-255

Live configuration

Keyword	Name	Port No	Bit No	Matrix	Src Port
LIVE	S	1-2	1-8	1-64	2-16

Wakeup configuration

Keyword	Name	WakeId	Port No	Bit No
WAKE	S	1-2	1-2	1-8

Surveillance Sources

Keyword	SrcMtx	SrcPort
SRCSURV	1-64	1-16

Surveillance zones

Keyword	WakeId	DestMtx	DestPort
ZONESURV	1-2	1-64	1-16

Serial interface trigger definitions

Keyword	Siu	Button	DestMtx	Port	Pin
SIUTRIG	1-12	1-96	1-64	1-2	1-8

Parallel input trigger definitions

Keyword	Port No	Bit No	DestMtx	Port No	Bit No
PORTTRIG	3-4	1-8	1-64	1-2	1-8

Parallel I/O setup (active hi/lo)

Keyword	Port No	A I/O	A Actv State
PIO	1-4	1-1	0-255

Serial Interface Unit setup

Keyword	Name	Siu No	Fault	Retry	Response	FailPoll	GoodPoll	Protocol	Buttons
SIUDEF	S	1-255	0-1	0-5	1-10000	1000-10000	1-1000	0-1	8-96

Button definitions

Keyword	Name	ButtNo	Siu No	Priority	Overide
BUTTONDEF	S	1-96	1-255	0-255	0-1

PTT names

Keyword	Name	Ptt No
INPUTDEF	S	1-16

Tie Line Surveillance

Keyword	TLSurvey	SurveyLevel	SurveyThresh
LOCAL	0-1	0-15	0-3

Additional surveillance parameters

Keyword	AvoidGaps	AvoidBlips	LongWakeup	Spare1	Spare2	Spare3
EXTLOCAL	0-1	0-1	0-1	0-32767	0-32767	0-32767

Appendix 4
Installing the alpha configuration suite

The *alpha* configuration suite is designed to operate in a Microsoft Windows 98/2000 environment.

Insert the installation CD. Run Windows Explorer and double click on the file "install files\144mb\disk1\setup.exe"

Follow the menus on screen to complete installation.

Click on the *alpha* configuration suite Icon to start the program.